<110> INCYTE PHARMACEUTICALS, INC.; HILLMAN, Jennifer L.
LAL, Preeti; TANG, Y. Tom
CORLEY, Neil C.; GUEGLER, Karl J.
BAUGHN, Mariah R.; PATTERSON, Chandra
BANDMAN, Olga; AU-YOUNG, Janice
GORGONE, Gina A.; YUE, Henry
AZIMZAI, Yalda; REDDY, Roopa
LU, Dyung Aina M.; SHIH, Leo L.

<120> PHOSPHORYLATION EFFECTORS

<130> PF-0565 USN

<140> US 09/744,794
<141> 2001-01-26

<150> US 99/17132
<151> 1999-07-28

<150> US 60/155,233
<151> 1999-01-12

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<151> 1998-12-22

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<151> 1998-11-19

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Ile	Lys	Glu	Ser	Ser	Phe	Glu	Glu	Ser	Asn	Ile	Glu	Asp	Pro	Leu	
				20					25						30
Ile	Val	Thr	Pro	Asp	Cys	Gln	Glu	Lys	Thr	Ser	Pro	Lys	Gly	Val	
				35					40						45
Glu	Asn	Pro	Ala	Val	Gln	Glu	Ser	Asn	Gln	Lys	Met	Leu	Gly	Pro	
				50					55						60
Pro	Leu	Glu	Val	Leu	Lys	Thr	Leu	Ala	Ser	Lys	Arg	Asn	Ala	Val	
				65					70						75
Ala	Phe	Arg	Ser	Phe	Asn	Ser	His	Ile	Asn	Ala	Ser	Asn	Asn	Ser	
				80					85						90
Glu	Pro	Ser	Arg	Met	Asn	Met	Thr	Ser	Leu	Asp	Ala	Met	Asp	Ile	
				95					100						105
Ser	Cys	Ala	Tyr	Ser	Gly	Ser	Tyr	Pro	Met	Ala	Ile	Thr	Pro	Thr	
				110					115						120
Gln	Lys	Arg	Arg	Ser	Cys	Met	Pro	His	Gln	Thr	Pro	Asn	Gln	Ile	
				125					130						135
Lys	Ser	Gly	Thr	Pro	Tyr	Arg	Thr	Pro	Lys	Ser	Val	Arg	Arg	Gly	
				140					145						150
Val	Ala	Pro	Val	Asp	Asp	Gly	Arg	Ile	Leu	Gly	Thr	Pro	Asp	Tyr	
				155					160						165
Leu	Ala	Pro	Glu	Leu	Leu	Leu	Gly	Arg	Ala	His	Gly	Pro	Ala	Val	

```
                170                 175                 180
Asp Trp Trp Ala Leu Gly Val Cys Leu Phe Glu Phe Leu Thr Gly
                185                 190                 195
Ile Pro Pro Phe Asn Asp Glu Thr Pro Gln Gln Val Phe Gln Asn
                200                 205                 210
Ile Leu Lys Arg Asp Ile Pro Trp Pro Glu Gly Glu Glu Lys Leu
                215                 220                 225
Ser Asp Asn Ala Gln Ser Ala Val Glu Ile Leu Leu Thr Ile Asp
                230                 235                 240
Asp Thr Lys Arg Ala Gly Met Lys Glu Leu Lys Arg His Pro Leu
                245                 250                 255
Phe Ser Asp Val Asp Trp Glu Asn Leu Gln His Gln Thr Met Pro
                260                 265                 270
Phe Ile Pro Gln Pro Asp Asp Glu Thr Asp Thr Ser Tyr Phe Glu
                275                 280                 285
Ala Arg Asn Thr Ala Gln His Leu Thr Val Ser Gly Phe Ser Leu
                290                 295                 300
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<210> 2
<211> 147
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2180116

<400> 2

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  1               5                  10                  15
Ser Pro Ser Arg Ala Arg Gly Pro Gly Gly Ser Pro Gly Gly Met
                20                  25                  30
Gln Lys Arg His Ala Arg Val Thr Val Lys Tyr Asp Arg Arg Glu
                35                  40                  45
Leu Gln Arg Arg Leu Asp Val Glu Lys Trp Ile Asp Gly Arg Leu
                50                  55                  60
Glu Glu Leu Tyr Arg Gly Met Glu Ala Asp Met Pro Asp Glu Ile
                65                  70                  75
Asn Ile Asp Glu Leu Leu Glu Leu Glu Ser Glu Glu Glu Arg Ser
                80                  85                  90
Arg Lys Ile Gln Gly Leu Leu Lys Ser Cys Gly Lys Pro Val Glu
                95                 100                 105
Asp Phe Ile Gln Glu Leu Leu Ala Lys Leu Gln Gly Leu His Arg
               110                 115                 120
Gln Pro Gly Leu Arg Gln Pro Ser Pro Ser His Asp Gly Ser Leu
               125                 130                 135
Ser Pro Leu Gln Asp Arg Ala Arg Thr Ala His Pro
               140                 145
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<210> 3
<211> 431
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 2197671

<400> 3

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  1               5                  10                  15
Leu Lys Ala Asp Pro Glu Glu Leu Phe Thr Lys Leu Glu Lys Ile
                20                  25                  30
Gly Lys Gly Ser Phe Gly Glu Val Phe Lys Gly Ile Asp Asn Arg
                35                  40                  45
Thr Gln Lys Val Val Ala Ile Lys Ile Ile Asp Leu Glu Glu Ala
```

```
                    50                  55                  60
Glu Asp Glu Ile Glu Asp Ile Gln Gln Glu Ile Thr Val Leu Ser
                    65                  70                  75
Gln Cys Asp Ser Pro Tyr Val Thr Lys Tyr Tyr Gly Ser Tyr Leu
                    80                  85                  90
Lys Asp Thr Lys Leu Trp Ile Ile Met Glu Tyr Leu Gly Gly Gly
                    95                 100                 105
Ser Ala Leu Asp Leu Leu Glu Pro Gly Arg Leu Asp Glu Thr Gln
                   110                 115                 120
Ile Ala Thr Ile Leu Arg Glu Ile Leu Lys Gly Leu Asp Tyr Leu
                   125                 130                 135
His Ser Glu Lys Lys Ile His Arg Asp Ile Lys Ala Ala Asn Val
                   140                 145                 150
Leu Leu Ser Glu His Gly Glu Val Lys Leu Ala Asp Phe Gly Val
                   155                 160                 165
Ala Gly Gln Leu Thr Asp Thr Gln Ile Lys Arg Asn Thr Phe Val
                   170                 175                 180
Gly Thr Pro Phe Trp Met Ala Pro Glu Val Ile Lys Gln Ser Ala
                   185                 190                 195
Tyr Asp Ser Lys Ala Asp Ile Trp Ser Leu Gly Ile Thr Ala Ile
                   200                 205                 210
Glu Leu Ala Arg Gly Glu Pro Pro His Ser Glu Leu His Pro Met
                   215                 220                 225
Lys Val Leu Phe Leu Ile Pro Lys Asn Asn Pro Pro Thr Leu Glu
                   230                 235                 240
Gly Asn Tyr Ser Lys Pro Leu Lys Glu Phe Val Glu Ala Cys Leu
                   245                 250                 255
Asn Lys Glu Pro Ser Phe Arg Pro Thr Ala Lys Glu Leu Leu Lys
                   260                 265                 270
His Lys Phe Ile Leu Arg Asn Ala Lys Lys Thr Ser Tyr Leu Thr
                   275                 280                 285
Glu Leu Ile Asp Arg Tyr Lys Arg Trp Lys Ala Glu Gln Ser His
                   290                 295                 300
Asp Asp Ser Ser Ser Glu Asp Ser Asp Ala Glu Thr Asp Gly Gln
                   305                 310                 315
Ala Ser Gly Gly Ser Asp Ser Gly Asp Trp Ile Phe Thr Ile Arg
                   320                 325                 330
Glu Lys Asp Pro Lys Asn Leu Glu Asn Gly Ala Leu Gln Pro Ser
                   335                 340                 345
Asp Leu Asp Arg Asn Lys Met Lys Asp Ile Pro Lys Arg Pro Phe
                   350                 355                 360
Ser Gln Cys Leu Ser Thr Ile Ile Ser Pro Leu Phe Ala Glu Leu
                   365                 370                 375
Lys Glu Lys Ser Gln Ala Cys Gly Gly Asn Leu Gly Ser Ile Glu
                   380                 385                 390
Glu Leu Arg Gly Ala Ile Tyr Leu Ala Glu Glu Ala Cys Pro Gly
                   395                 400                 405
Ile Ser Asp Thr Met Val Ala Gln Leu Val Gln Arg Leu Gln Arg
                   410                 415                 420
Tyr Ser Leu Ser Gly Gly Gly Thr Ser Ser His
                   425                 430

<210> 4
<211> 218
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2594943

<400> 4
Met Asn Cys Arg Ser Glu Val Leu Glu Val Ser Val Glu Gly Arg
  1                 5                  10                  15
Gln Val Glu Glu Ala Met Leu Ala Val Leu His Thr Val Leu Leu
                   20                  25                  30
His Arg Ser Thr Gly Lys Phe His Tyr Lys Lys Glu Gly Thr Tyr
```

```
                35                  40                  45
Ser Ile Gly Thr Val Gly Thr Gln Asp Val Asp Cys Asp Phe Ile
                50                  55                  60
Asp Phe Thr Tyr Val Arg Val Ser Ser Glu Glu Leu Asp Arg Ala
                65                  70                  75
Leu Arg Lys Val Val Gly Glu Phe Lys Asp Ala Leu Arg Asn Ser
                80                  85                  90
Gly Gly Asp Gly Leu Gly Gln Met Ser Leu Glu Phe Tyr Gln Lys
                95                  100                 105
Lys Lys Ser Arg Trp Pro Phe Ser Asp Glu Cys Ile Pro Trp Glu
                110                 115                 120
Val Trp Thr Val Lys Val His Val Val Ala Leu Ala Thr Glu Gln
                125                 130                 135
Glu Arg Gln Ile Cys Arg Glu Lys Val Gly Glu Lys Leu Cys Glu
                140                 145                 150
Lys Ile Ile Asn Ile Val Glu Val Met Asn Arg His Glu Tyr Leu
                155                 160                 165
Pro Lys Met Pro Thr Gln Ser Glu Val Asp Asn Val Phe Asp Thr
                170                 175                 180
Gly Leu Arg Asp Val Gln Pro Tyr Leu Tyr Lys Ile Ser Phe Gln
                185                 190                 195
Ile Thr Asp Ala Leu Gly Thr Ser Val Thr Thr Thr Met Arg Arg
                200                 205                 210
Leu Ile Lys Asp Thr Leu Ala Leu
                215
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<210> 5
<211> 474
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1513871

<400> 5

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Met Ile Met Asn Lys Met Lys Asn Phe Lys Arg Arg Phe Ser Leu
  1                 5                  10                  15
Ser Val Pro Arg Thr Glu Thr Ile Glu Glu Ser Leu Ala Glu Phe
                20                  25                  30
Thr Glu Gln Phe Asn Gln Leu His Asn Arg Arg Asn Glu Asn Leu
                35                  40                  45
Gln Leu Gly Pro Leu Gly Arg Asp Pro Pro Gln Glu Cys Ser Thr
                50                  55                  60
Phe Ser Pro Thr Asp Ser Gly Glu Glu Pro Gly Gln Leu Ser Pro
                65                  70                  75
Gly Val Gln Phe Gln Arg Arg Gln Asn Gln Arg Arg Phe Ser Met
                80                  85                  90
Glu Asp Val Ser Lys Arg Leu Ser Leu Pro Met Asp Ile Arg Leu
                95                  100                 105
Pro Gln Glu Phe Leu Gln Lys Leu Gln Met Glu Ser Pro Asp Leu
                110                 115                 120
Pro Lys Pro Leu Ser Arg Met Ser Arg Arg Ala Ser Leu Ser Asp
                125                 130                 135
Ile Gly Phe Gly Lys Leu Glu Thr Tyr Val Lys Leu Asp Lys Leu
                140                 145                 150
Gly Glu Gly Thr Tyr Ala Thr Val Phe Lys Gly Arg Ser Lys Leu
                155                 160                 165
Thr Glu Asn Leu Val Ala Leu Lys Glu Ile Arg Leu Glu His Glu
                170                 175                 180
Glu Gly Ala Pro Cys Thr Ala Ile Arg Glu Val Ser Leu Leu Lys
                185                 190                 195
Asn Leu Lys His Ala Asn Ile Val Thr Leu His Asp Leu Ile His
                200                 205                 210
Thr Asp Arg Ser Leu Thr Leu Val Phe Glu Tyr Leu Asp Ser Asp
                215                 220                 225
Leu Lys Gln Tyr Leu Asp His Cys Gly Asn Leu Met Ser Met His
```

```
                230                 235                 240
Asn Val Lys Ile Phe Met Phe Gln Leu Leu Arg Gly Leu Ala Tyr
                245                 250                 255
Cys His His Arg Lys Ile Leu His Arg Asp Leu Lys Pro Gln Asn
                260                 265                 270
Leu Leu Ile Asn Glu Arg Gly Glu Leu Lys Leu Ala Asp Phe Gly
                275                 280                 285
Leu Ala Arg Ala Lys Ser Val Pro Thr Lys Thr Tyr Ser Asn Glu
                290                 295                 300
Val Val Thr Leu Trp Tyr Arg Pro Pro Asp Val Leu Leu Gly Ser
                305                 310                 315
Thr Glu Tyr Ser Thr Pro Ile Asp Met Trp Gly Val Gly Cys Ile
                320                 325                 330
His Tyr Glu Met Ala Thr Gly Arg Pro Leu Phe Pro Gly Ser Thr
                335                 340                 345
Val Lys Glu Glu Leu His Leu Ile Phe Arg Leu Leu Gly Thr Pro
                350                 355                 360
Thr Glu Glu Thr Trp Pro Gly Val Thr Ala Phe Ser Glu Phe Arg
                365                 370                 375
Thr Tyr Ser Phe Pro Cys Tyr Leu Pro Gln Pro Leu Ile Asn His
                380                 385                 390
Ala Pro Arg Leu Asp Thr Asp Gly Ile His Leu Leu Ser Ser Leu
                395                 400                 405
Leu Leu Tyr Glu Ser Lys Ser Arg Met Ser Ala Glu Ala Ala Leu
                410                 415                 420
Ser His Ser Tyr Phe Arg Ser Leu Gly Glu Arg Val His Gln Leu
                425                 430                 435
Glu Asp Thr Ala Ser Ile Phe Ser Leu Lys Glu Ile Gln Leu Gln
                440                 445                 450
Lys Asp Pro Gly Tyr Arg Gly Leu Ala Phe Gln Gln Pro Gly Arg
                455                 460                 465
Gly Lys Asn Arg Arg Gln Ser Ile Phe
                470
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<210> 6
<211> 540
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 156108

<400> 6

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  1               5                  10                  15
His Lys Leu Ala Asp Leu Arg Tyr Leu Ser Arg Gly Ala Ser Gly
                20                  25                  30
Thr Val Ser Ser Ala Arg His Ala Asp Trp Arg Val Gln Val Ala
                35                  40                  45
Val Lys His Leu His Ile His Thr Pro Leu Leu Asp Ser Glu Arg
                50                  55                  60
Lys Asp Val Leu Arg Glu Ala Glu Ile Leu His Lys Ala Arg Phe
                65                  70                  75
Ser Tyr Ile Leu Pro Ile Leu Gly Ile Cys Asn Glu Pro Glu Phe
                80                  85                  90
Leu Gly Ile Val Thr Glu Tyr Met Pro Asn Gly Ser Leu Asn Glu
                95                 100                 105
Leu Leu His Arg Lys Thr Glu Tyr Pro Asp Val Ala Trp Pro Leu
                110                 115                 120
Arg Phe Arg Ile Leu His Glu Ile Ala Leu Gly Val Asn Tyr Leu
                125                 130                 135
His Asn Met Thr Pro Pro Leu Leu His His Asp Leu Lys Thr Gln
                140                 145                 150
Asn Ile Leu Leu Asp Asn Glu Phe His Val Lys Ile Ala Asp Phe
                155                 160                 165
Gly Leu Ser Lys Trp Arg Met Met Ser Leu Ser Gln Ser Arg Ser
```

```
                170                 175                 180
Ser Lys Ser Ala Pro Glu Gly Gly Thr Ile Ile Tyr Met Pro Pro
                185                 190                 195
Glu Asn Tyr Glu Pro Gly Gln Lys Ser Arg Ala Ser Ile Lys His
                200                 205                 210
Asp Ile Tyr Ser Tyr Ala Val Ile Thr Trp Glu Val Leu Ser Arg
                215                 220                 225
Lys Gln Pro Phe Glu Asp Val Thr Asn Pro Leu Gln Ile Met Tyr
                230                 235                 240
Ser Val Ser Gln Gly His Arg Pro Val Ile Asn Glu Glu Ser Leu
                245                 250                 255
Pro Tyr Asp Ile Pro His Arg Ala Arg Met Ile Ser Leu Ile Glu
                260                 265                 270
Ser Gly Trp Ala Gln Asn Pro Asp Glu Arg Pro Ser Phe Leu Lys
                275                 280                 285
Cys Leu Ile Glu Leu Glu Pro Val Leu Arg Thr Phe Glu Glu Ile
                290                 295                 300
Thr Phe Leu Glu Ala Val Ile Gln Leu Lys Lys Thr Lys Leu Gln
                305                 310                 315
Ser Val Ser Ser Ala Ile His Leu Cys Asp Lys Lys Lys Met Glu
                320                 325                 330
Leu Ser Leu Asn Ile Pro Val Asn His Gly Pro Gln Glu Glu Ser
                335                 340                 345
Cys Gly Ser Ser Gln Leu His Glu Asn Ser Gly Ser Pro Glu Thr
                350                 355                 360
Ser Arg Ser Leu Pro Ala Pro Gln Asp Asn Asp Phe Leu Ser Arg
                365                 370                 375
Lys Ala Gln Asp Cys Tyr Phe Met Lys Leu His His Cys Pro Gly
                380                 385                 390
Asn His Ser Trp Asp Ser Thr Ile Ser Gly Ser Gln Arg Ala Ala
                395                 400                 405
Phe Cys Asp His Lys Thr Thr Pro Cys Ser Ser Ala Ile Ile Asn
                410                 415                 420
Pro Leu Ser Thr Ala Gly Asn Ser Glu Arg Leu Gln Pro Gly Ile
                425                 430                 435
Ala Gln Gln Trp Ile Gln Ser Lys Arg Glu Asp Ile Val Asn Gln
                440                 445                 450
Met Thr Glu Ala Cys Leu Asn Gln Ser Leu Asp Ala Leu Leu Ser
                455                 460                 465
Arg Asp Leu Ile Met Lys Glu Asp Tyr Glu Leu Val Ser Thr Lys
                470                 475                 480
Pro Thr Arg Thr Ser Lys Val Arg Gln Leu Leu Asp Thr Thr Asp
                485                 490                 495
Ile Gln Gly Glu Glu Phe Ala Lys Val Ile Val Gln Lys Leu Lys
                500                 505                 510
Asp Asn Lys Gln Met Gly Leu Gln Pro Tyr Pro Glu Ile Leu Val
                515                 520                 525
Val Ser Arg Ser Pro Ser Leu Asn Leu Leu Gln Asn Lys Ser Met
                530                 535                 540
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<210> 7
<211> 454
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2883243

<400> 7

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  1               5                  10                  15
Ala Lys Thr Asp Ile Asn Cys Gly Thr Asp Leu Met Phe Tyr Ile
                 20                  25                  30
Glu Met Asp Pro Pro Ala Leu Pro Pro Lys Pro Pro Lys Pro Thr
                 35                  40                  45
```

```
Thr Val Ala Asn Asn Gly Met Asn Asn Asn Met Ser Leu Gln Asp
                 50                  55                  60
Ala Glu Trp Tyr Trp Gly Asp Ile Ser Arg Glu Glu Val Asn Glu
                 65                  70                  75
Lys Leu Arg Asp Thr Ala Asp Gly Thr Phe Leu Val Arg Asp Ala
                 80                  85                  90
Ser Thr Lys Met His Gly Asp Tyr Thr Leu Thr Leu Arg Lys Gly
                 95                 100                 105
Gly Asn Asn Lys Leu Ile Lys Ile Phe His Arg Asp Gly Lys Tyr
                110                 115                 120
Gly Phe Ser Asp Pro Leu Thr Phe Ser Ser Val Val Glu Leu Ile
                125                 130                 135
Asn His Tyr Arg Asn Glu Ser Leu Ala Gln Tyr Asn Pro Lys Leu
                140                 145                 150
Asp Val Lys Leu Leu Tyr Pro Val Ser Lys Tyr Gln Gln Asp Gln
                155                 160                 165
Val Val Lys Glu Asp Asn Ile Glu Ala Val Gly Lys Lys Leu His
                170                 175                 180
Glu Tyr Asn Thr Gln Phe Gln Glu Lys Ser Arg Glu Tyr Asp Arg
                185                 190                 195
Leu Tyr Glu Glu Tyr Thr Arg Thr Ser Gln Glu Ile Gln Met Lys
                200                 205                 210
Arg Thr Ala Ile Glu Ala Phe Asn Glu Thr Ile Lys Ile Phe Glu
                215                 220                 225
Glu Gln Cys Gln Thr Gln Glu Arg Tyr Ser Lys Glu Tyr Ile Glu
                230                 235                 240
Lys Phe Lys Arg Glu Gly Asn Glu Lys Glu Ile Gln Arg Ile Met
                245                 250                 255
His Asn Tyr Asp Lys Leu Lys Ser Arg Ile Ser Glu Ile Ile Asp
                260                 265                 270
Ser Arg Arg Arg Leu Glu Glu Asp Leu Lys Lys Gln Ala Ala Glu
                275                 280                 285
Tyr Arg Glu Ile Asp Lys Arg Met Asn Ser Ile Lys Pro Asp Leu
                290                 295                 300
Ile Gln Leu Arg Lys Thr Arg Asp Gln Tyr Leu Met Trp Leu Thr
                305                 310                 315
Gln Lys Gly Val Arg Gln Lys Lys Leu Asn Glu Trp Leu Gly Asn
                320                 325                 330
Glu Asn Thr Glu Asp Gln Tyr Ser Leu Val Glu Asp Asp Glu Asp
                335                 340                 345
Leu Pro His His Asp Glu Lys Thr Trp Asn Val Gly Ser Ser Asn
                350                 355                 360
Arg Asn Lys Ala Glu Asn Leu Leu Arg Gly Lys Arg Asp Gly Thr
                365                 370                 375
Phe Leu Val Arg Glu Ser Ser Lys Gln Gly Cys Tyr Ala Cys Ser
                380                 385                 390
Val Val Val Asp Gly Glu Val Lys His Cys Val Ile Asn Lys Thr
                395                 400                 405
Ala Thr Gly Tyr Gly Phe Ala Glu Pro Tyr Asn Leu Tyr Ser Ser
                410                 415                 420
Leu Lys Glu Leu Val Leu His Tyr Gln His Thr Ser Leu Val Gln
                425                 430                 435
His Asn Asp Ser Leu Asn Val Thr Leu Ala Tyr Pro Val Tyr Ala
                440                 445                 450
Gln Gln Arg Arg
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<210> 8
<211> 502
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3173355

<400> 8

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 1               5                  10                  15
Pro Ala Leu Ala Glu Thr Gly Gly Glu Arg Gln Leu Ser Pro Glu
            20                  25                  30
Lys Ser Glu Ile Trp Gly Pro Gly Leu Lys Ala Asp Val Val Leu
        35                  40                  45
Pro Ala Arg Tyr Phe Tyr Ile Gln Ala Val Asp Thr Ser Gly Asn
    50                  55                  60
Lys Phe Thr Ser Ser Pro Gly Glu Lys Val Phe Gln Val Lys Val
65                  70                  75
Ser Ala Pro Glu Glu Gln Phe Thr Arg Val Gly Val Gln Val Leu
            80                  85                  90
Asp Arg Lys Asp Gly Ser Phe Ile Val Arg Tyr Arg Met Tyr Ala
        95                  100                 105
Ser Tyr Lys Asn Leu Lys Val Glu Ile Lys Phe Gln Gly Gln His
    110                 115                 120
Val Ala Lys Ser Pro Tyr Ile Leu Lys Gly Pro Val Tyr His Glu
125                 130                 135
Asn Cys Asp Cys Pro Leu Gln Asp Ser Ala Ala Trp Leu Arg Glu
            140                 145                 150
Met Asn Cys Pro Glu Thr Ile Ala Gln Ile Gln Arg Asp Leu Ala
        155                 160                 165
His Phe Pro Ala Val Asp Pro Glu Lys Ile Ala Val Glu Ile Pro
    170                 175                 180
Lys Arg Phe Gly Gln Arg Gln Ser Leu Cys His Tyr Thr Leu Lys
185                 190                 195
Asp Asn Lys Val Tyr Ile Lys Thr His Gly Glu His Val Gly Phe
            200                 205                 210
Arg Ile Phe Met Asp Ala Ile Leu Leu Ser Leu Thr Arg Lys Val
        215                 220                 225
Lys Met Pro Asp Val Glu Leu Phe Val Asn Leu Gly Asp Trp Pro
    230                 235                 240
Leu Glu Lys Lys Lys Ser Asn Ser Asn Ile His Pro Ile Phe Ser
245                 250                 255
Trp Cys Gly Ser Thr Asp Ser Lys Asp Ile Val Met Pro Thr Tyr
            260                 265                 270
Asp Leu Thr Asp Ser Val Leu Glu Thr Met Gly Arg Val Ser Leu
        275                 280                 285
Asp Met Met Ser Val Gln Ala Asn Thr Gly Pro Pro Trp Glu Ser
    290                 295                 300
Lys Asn Ser Thr Ala Val Trp Arg Gly Arg Asp Ser Arg Lys Glu
305                 310                 315
Arg Leu Glu Leu Val Lys Leu Ser Arg Lys His Pro Glu Leu Ile
            320                 325                 330
Asp Ala Ala Phe Thr Asn Phe Phe Phe Phe Lys His Asp Glu Asn
        335                 340                 345
Leu Tyr Gly Pro Ile Val Lys His Ile Ser Phe Phe Asp Phe Phe
    350                 355                 360
Lys His Lys Tyr Gln Ile Asn Ile Asp Gly Thr Val Ala Ala Tyr
365                 370                 375
Arg Leu Pro Tyr Leu Leu Val Gly Asp Ser Val Val Leu Lys Gln
            380                 385                 390
Asp Ser Ile Tyr Tyr Glu His Phe Tyr Asn Glu Leu Gln Pro Trp
        395                 400                 405
Lys His Tyr Ile Pro Val Lys Ser Asn Leu Ser Asp Leu Leu Glu
    410                 415                 420
Lys Leu Lys Trp Ala Lys Asp His Asp Glu Glu Ala Lys Lys Ile
425                 430                 435
Ala Lys Ala Gly Gln Glu Phe Ala Arg Asn Asn Leu Met Gly Asp
            440                 445                 450
Asp Ile Phe Cys Tyr Tyr Phe Lys Leu Phe Gln Glu Tyr Ala Asn
        455                 460                 465
Leu Gln Val Ser Glu Pro Gln Ile Arg Glu Gly Met Lys Arg Val
    470                 475                 480
Glu Pro Gln Thr Glu Asp Asp Leu Phe Pro Cys Thr Cys His Arg
485                 490                 495
Lys Lys Thr Lys Asp Glu Leu
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500

<210> 9
<211> 282
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5116906

<400> 9
Met Trp Ala Cys Gly Val Ile Leu Tyr Ile Leu Leu Val Gly Tyr
1 5 10 15
Pro Pro Phe Trp Asp Glu Asp Gln His Arg Leu Tyr Gln Gln Ile
20 25 30
Lys Ala Gly Ala Tyr Asp Phe Pro Ser Pro Glu Trp Asp Thr Val
35 40 45
Thr Pro Glu Ala Lys Asp Leu Ile Asn Lys Met Leu Thr Ile Asn
50 55 60
Pro Ala Lys Arg Ile Thr Ala Ser Glu Ala Leu Lys His Pro Trp
65 70 75
Ile Cys Gln Arg Ser Thr Val Ala Ser Met Met His Arg Gln Glu
80 85 90
Thr Val Asp Cys Leu Lys Lys Phe Asn Ala Arg Arg Lys Leu Lys
95 100 105
Gly Ala Ile Leu Thr Thr Met Leu Ala Thr Arg Asn Phe Ser Ala
110 115 120
Ala Lys Ser Leu Leu Lys Lys Pro Asp Gly Val Lys Glu Ser Thr
125 130 135
Glu Ser Ser Asn Thr Thr Ile Glu Asp Glu Asp Val Lys Ala Arg
140 145 150
Lys Gln Glu Ile Ile Lys Val Thr Glu Gln Leu Ile Glu Ala Ile
155 160 165
Asn Asn Gly Asp Phe Glu Ala Tyr Thr Lys Ile Cys Asp Pro Gly
170 175 180
Leu Thr Ala Phe Glu Pro Glu Ala Leu Gly Asn Leu Val Glu Gly
185 190 195
Met Asp Phe His Arg Phe Tyr Phe Glu Asn Ala Leu Ser Lys Ser
200 205 210
Asn Lys Pro Ile His Thr Ile Ile Leu Asn Pro His Val His Leu
215 220 225
Val Gly Asp Asp Ala Ala Cys Ile Ala Tyr Ile Arg Leu Thr Gln
230 235 240
Tyr Met Asp Gly Ser Gly Met Pro Lys Thr Met Gln Ser Glu Glu
245 250 255
Thr Arg Val Trp His Arg Arg Asp Gly Lys Trp Gln Asn Val His
260 265 270
Phe His Arg Ser Gly Ser Pro Thr Val Pro Ile Asn
275 280

<210> 10
<211> 510
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 940589

<400> 10
Met Lys Ala Asp Ile Lys Ile Trp Ile Leu Thr Gly Asp Lys Gln
1 5 10 15
Glu Thr Ala Ile Asn Ile Gly His Ser Cys Lys Leu Leu Lys Lys
20 25 30
Asn Met Gly Met Ile Val Ile Asn Glu Gly Ser Leu Asp Ser Phe
35 40 45

```
Ser Asn Thr Gln Asn Ser Arg Lys Glu Ala Val Leu Leu Ala Lys
                 50                  55                  60
Met Lys His Pro Asn Ile Val Ala Phe Lys Glu Ser Phe Glu Ala
                 65                  70                  75
Glu Gly His Leu Tyr Ile Val Met Glu Tyr Cys Asp Gly Gly Asp
                 80                  85                  90
Leu Met Gln Lys Ile Lys Gln Gln Lys Gly Lys Leu Phe Pro Glu
                 95                 100                 105
Asp Met Ile Leu Asn Trp Phe Thr Gln Met Cys Leu Gly Val Asn
                110                 115                 120
His Ile His Lys Lys Arg Val Leu His Arg Asp Ile Lys Ser Lys
                125                 130                 135
Asn Ile Phe Leu Thr Gln Asn Gly Lys Val Lys Leu Gly Asp Phe
                140                 145                 150
Gly Ser Ala Arg Leu Leu Ser Asn Pro Met Ala Phe Ala Cys Thr
                155                 160                 165
Tyr Val Gly Thr Pro Tyr Tyr Val Pro Pro Glu Ile Trp Glu Asn
                170                 175                 180
Leu Pro Tyr Asn Asn Lys Ser Asp Ile Trp Ser Leu Gly Cys Ile
                185                 190                 195
Leu Tyr Glu Leu Cys Thr Leu Lys His Pro Phe Gln Ala Asn Ser
                200                 205                 210
Trp Lys Asn Leu Ile Leu Lys Val Cys Gln Gly Cys Ile Ser Pro
                215                 220                 225
Leu Pro Ser His Tyr Ser Tyr Glu Leu Gln Phe Leu Val Lys Gln
                230                 235                 240
Met Phe Lys Arg Asn Pro Ser His Arg Pro Ser Ala Thr Thr Leu
                245                 250                 255
Leu Ser Arg Gly Ile Val Ala Arg Leu Val Gln Lys Cys Leu Pro
                260                 265                 270
Pro Glu Ile Ile Met Glu Tyr Gly Glu Glu Val Leu Glu Glu Ile
                275                 280                 285
Lys Asn Ser Lys His Asn Thr Pro Arg Lys Lys Thr Asn Pro Ser
                290                 295                 300
Arg Ile Arg Ile Ala Leu Gly Asn Glu Ala Ser Thr Val Gln Glu
                305                 310                 315
Glu Glu Gln Asp Arg Lys Gly Ser His Thr Asp Leu Glu Ser Ile
                320                 325                 330
Asn Glu Asn Leu Val Glu Ser Ala Leu Arg Arg Val Asn Arg Glu
                335                 340                 345
Glu Lys Gly Asn Lys Ser Val His Leu Arg Lys Ala Ser Ser Pro
                350                 355                 360
Asn Leu His Arg Arg Gln Trp Glu Lys Asn Val Pro Asn Thr Ala
                365                 370                 375
Leu Thr Ala Leu Glu Asn Ala Ser Ile Leu Thr Ser Ser Leu Thr
                380                 385                 390
Ala Glu Asp Asp Arg Gly Gly Ser Val Ile Lys Tyr Ser Lys Asn
                395                 400                 405
Thr Thr Arg Lys Gln Trp Leu Lys Glu Thr Pro Asp Thr Leu Leu
                410                 415                 420
Asn Ile Leu Lys Asn Ala Asp Leu Ser Leu Ala Phe Gln Thr Tyr
                425                 430                 435
Thr Ile Tyr Arg Pro Gly Ser Glu Gly Phe Leu Lys Gly Pro Leu
                440                 445                 450
Ser Glu Glu Thr Glu Ala Ser Asp Ser Val Asp Gly Gly His Asp
                455                 460                 465
Ser Val Ile Leu Asp Pro Glu Arg Leu Glu Pro Gly Leu Asp Glu
                470                 475                 480
Glu Asp Thr Asp Phe Glu Glu Glu Asp Asp Asn Pro Asp Trp Val
                485                 490                 495
Ser Glu Leu Lys Lys Arg Ala Gly Trp Gln Gly Leu Cys Asp Arg
                500                 505                 510
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<210> 11
<211> 248
<212> PRT

PF-0565 USN

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 304421

<400> 11
Met Ala Glu Thr Ser Leu Pro Glu Leu Gly Gly Glu Asp Lys Ala
1 5 10 15
Thr Pro Cys Pro Ser Ile Leu Glu Leu Glu Glu Leu Leu Arg Ala
20 25 30
Gly Lys Ser Ser Cys Ser Arg Val Asp Glu Val Trp Pro Asn Leu
35 40 45
Phe Ile Gly Asp Ala Met Asp Ser Leu Gln Lys Gln Asp Leu Arg
50 55 60
Arg Pro Lys Ile His Gly Ala Val Gln Ala Ser Pro Tyr Gln Pro
65 70 75
Pro Thr Leu Ala Ser Leu Gln Arg Leu Leu Trp Val Arg Gln Ala
80 85 90
Ala Thr Leu Asn His Ile Asp Glu Val Trp Pro Ser Leu Phe Leu
95 100 105
Gly Asp Ala Tyr Ala Ala Arg Asp Lys Ser Lys Leu Ile Gln Leu
110 115 120
Gly Ile Thr His Val Val Asn Ala Ala Ala Gly Lys Phe Gln Val
125 130 135
Asp Thr Gly Ala Lys Phe Tyr Arg Gly Met Ser Leu Glu Tyr Tyr
140 145 150
Gly Ile Glu Ala Asp Asp Asn Pro Phe Phe Asp Leu Ser Val Tyr
155 160 165
Phe Leu Pro Val Ala Arg Tyr Ile Arg Ala Ala Leu Ser Val Pro
170 175 180
Gln Gly Arg Val Leu Val His Cys Ala Met Gly Val Ser Arg Ser
185 190 195
Ala Thr Leu Val Leu Ala Phe Leu Met Ile Tyr Glu Asn Met Thr
200 205 210
Leu Val Glu Ala Ile Gln Thr Val Gln Ala His Arg Asn Ile Cys
215 220 225
Pro Asn Ser Gly Phe Leu Arg Gln Leu Gln Val Leu Asp Asn Arg
230 235 240
Leu Gly Arg Glu Thr Gly Arg Phe
245

<210> 12
<211> 810
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1213802

<400> 12
Met Pro Asn Gln Gly Glu Asp Cys Tyr Phe Phe Phe Tyr Ser Thr
1 5 10 15
Cys Thr Lys Gly Asp Ser Cys Pro Phe Arg His Cys Glu Ala Ala
20 25 30
Ile Gly Asn Glu Thr Val Cys Thr Leu Trp Gln Glu Gly Arg Cys
35 40 45
Phe Arg Gln Val Cys Arg Phe Arg His Met Glu Ile Asp Lys Lys
50 55 60
Arg Ser Glu Ile Pro Cys Tyr Trp Glu Asn Gln Pro Thr Gly Cys
65 70 75
Gln Lys Leu Asn Cys Ala Phe His His Asn Arg Gly Arg Tyr Val
80 85 90
Asp Gly Leu Phe Leu Pro Pro Ser Lys Thr Val Leu Pro Thr Val
95 100 105
Pro Glu Ser Pro Glu Glu Glu Val Lys Ala Ser Gln Leu Ser Val

```
                110                 115                 120
Gln Gln Asn Lys Leu Ser Val Gln Ser Asn Pro Ser Pro Gln Leu
            125                 130                 135
Arg Ser Val Met Lys Val Glu Ser Ser Glu Asn Val Pro Ser Pro
            140                 145                 150
Thr His Pro Pro Val Val Ile Asn Ala Ala Asp Asp Asp Glu Asp
            155                 160                 165
Asp Asp Asp Gln Phe Ser Glu Glu Gly Asp Glu Thr Lys Thr Pro
            170                 175                 180
Thr Leu Gln Pro Thr Pro Glu Val His Asn Gly Leu Arg Val Thr
            185                 190                 195
Ser Val Arg Lys Pro Ala Val Asn Ile Lys Gln Gly Glu Cys Leu
            200                 205                 210
Asn Phe Gly Ile Lys Thr Leu Glu Glu Ile Lys Ser Lys Lys Met
            215                 220                 225
Lys Glu Lys Ser Lys Lys Gln Gly Glu Gly Ser Ser Gly Val Ser
            230                 235                 240
Ser Leu Leu Leu His Pro Glu Pro Val Pro Gly Pro Glu Lys Glu
            245                 250                 255
Asn Val Arg Thr Val Val Arg Thr Val Thr Leu Ser Thr Lys Gln
            260                 265                 270
Gly Glu Glu Pro Leu Val Arg Leu Ser Leu Thr Glu Arg Leu Gly
            275                 280                 285
Lys Arg Lys Phe Ser Ala Gly Gly Asp Ser Asp Pro Pro Leu Lys
            290                 295                 300
Arg Ser Leu Ala Gln Arg Leu Gly Lys Lys Val Glu Ala Pro Glu
            305                 310                 315
Thr Asn Ile Asp Lys Thr Pro Lys Lys Ala Gln Val Ser Lys Ser
            320                 325                 330
Leu Lys Glu Arg Leu Gly Met Ser Ala Asp Pro Asp Asn Glu Asp
            335                 340                 345
Ala Thr Asp Lys Val Asn Lys Val Gly Glu Ile His Val Lys Thr
            350                 355                 360
Leu Glu Glu Ile Leu Leu Glu Arg Ala Ser Gln Lys Arg Gly Glu
            365                 370                 375
Leu Gln Thr Lys Leu Lys Thr Glu Gly Pro Ser Lys Thr Asp Asp
            380                 385                 390
Ser Thr Ser Gly Ala Arg Ser Ser Ser Thr Ile Arg Ile Lys Thr
            395                 400                 405
Phe Ser Glu Val Leu Ala Glu Lys Lys His Arg Gln Gln Glu Ala
            410                 415                 420
Glu Arg Gln Lys Ser Lys Lys Asp Thr Thr Cys Ile Lys Leu Lys
            425                 430                 435
Ile Asp Ser Glu Ile Lys Lys Thr Val Val Leu Pro Pro Ile Val
            440                 445                 450
Ala Ser Arg Gly Gln Ser Glu Glu Pro Ala Gly Lys Thr Lys Ser
            455                 460                 465
Met Gln Glu Val His Ile Lys Thr Leu Glu Glu Ile Lys Leu Glu
            470                 475                 480
Lys Ala Leu Arg Val Gln Gln Ser Ser Glu Ser Ser Thr Ser Ser
            485                 490                 495
Pro Ser Gln His Glu Ala Thr Pro Gly Ala Arg Arg Leu Leu Arg
            500                 505                 510
Ile Thr Lys Arg Thr Gly Met Lys Glu Glu Lys Asn Leu Gln Glu
            515                 520                 525
Gly Asn Glu Val Asp Ser Gln Ser Ser Ile Arg Thr Glu Ala Lys
            530                 535                 540
Glu Ala Ser Gly Glu Thr Thr Gly Val Asp Ile Thr Lys Ile Gln
            545                 550                 555
Val Lys Arg Cys Glu Thr Met Arg Glu Lys His Met Gln Lys Gln
            560                 565                 570
Gln Glu Arg Glu Lys Ser Val Leu Thr Pro Leu Arg Gly Asp Val
            575                 580                 585
Ala Ser Cys Asn Thr Gln Val Ala Glu Lys Pro Val Leu Thr Ala
            590                 595                 600
Val Pro Gly Ile Thr Arg His Leu Thr Lys Arg Leu Pro Thr Lys
            605                 610                 615
```

```
Ser Ser Gln Lys Val Glu Val Glu Thr Ser Gly Ile Gly Asp Ser
                620                 625                 630
Leu Leu Asn Val Lys Cys Ala Ala Gln Thr Leu Glu Lys Arg Gly
                635                 640                 645
Lys Ala Lys Pro Lys Val Asn Val Lys Pro Ser Val Val Lys Val
                650                 655                 660
Val Ser Ser Pro Lys Leu Ala Pro Lys Arg Lys Ala Val Glu Met
                665                 670                 675
His Ala Ala Val Ile Ala Ala Val Lys Pro Leu Ser Ser Ser Ser
                680                 685                 690
Val Leu Gln Glu Pro Pro Ala Lys Lys Ala Ala Val Ala Val Val
                695                 700                 705
Pro Leu Val Ser Glu Asp Lys Ser Val Thr Val Pro Glu Ala Glu
                710                 715                 720
Asn Pro Arg Asp Ser Leu Val Leu Pro Pro Thr Gln Ser Ser Ser
                725                 730                 735
Asp Ser Ser Pro Pro Glu Val Ser Gly Pro Ser Ser Ser Gln Met
                740                 745                 750
Ser Met Lys Thr Arg Arg Leu Ser Ser Ala Ser Thr Gly Lys Pro
                755                 760                 765
Pro Leu Ser Val Glu Asp Asp Phe Glu Lys Leu Ile Trp Glu Ile
                770                 775                 780
Ser Gly Gly Lys Leu Glu Ala Glu Ile Asp Leu Asp Pro Gly Lys
                785                 790                 795
Asp Glu Asp Asp Leu Leu Leu Glu Leu Ser Glu Met Ile Asp Ser
                800                 805                 810
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<210> 13
<211> 549
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1378134

<400> 13

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Met Arg Arg Arg Ala Ser Asn Ala Ala Ala Ala Ala His Thr Ile
  1               5                  10                  15
Gly Gly Ser Lys His Thr Met Asn Asp His Leu His Val Gly Ser
                20                  25                  30
His Ala His Gly Gln Ile Gln Val Arg Gln Leu Phe Glu Asp Asn
                35                  40                  45
Ser Asn Lys Arg Thr Val Leu Thr Thr Gln Pro Asn Gly Leu Thr
                50                  55                  60
Thr Val Gly Lys Thr Gly Leu Pro Val Val Pro Glu Arg Gln Leu
                65                  70                  75
Asp Ser Ile His Arg Arg Gln Gly Ser Ser Thr Ser Leu Lys Ser
                80                  85                  90
Met Glu Gly Met Gly Lys Val Lys Ala Thr Pro Met Thr Pro Glu
                95                 100                 105
Gln Ala Met Lys Gln Tyr Met Gln Lys Leu Thr Ala Phe Glu His
               110                 115                 120
His Glu Ile Phe Ser Tyr Pro Glu Ile Tyr Phe Leu Gly Leu Asn
               125                 130                 135
Ala Lys Lys Arg Gln Gly Met Thr Gly Gly Pro Asn Asn Gly Gly
               140                 145                 150
Tyr Asp Asp Asp Gln Gly Ser Tyr Val Gln Val Pro His Asp His
               155                 160                 165
Val Ala Tyr Arg Tyr Glu Val Leu Lys Val Ile Gly Lys Gly Ser
               170                 175                 180
Phe Gly Gln Val Val Lys Ala Tyr Asp His Lys Val His Gln His
               185                 190                 195
Val Ala Leu Lys Met Val Arg Asn Glu Lys Arg Phe His Arg Gln
               200                 205                 210
Ala Ala Glu Glu Ile Arg Ile Leu Glu His Leu Arg Lys Gln Asp
```

215 220 225
Lys Asp Asn Thr Met Asn Val Ile His Met Leu Glu Asn Phe Thr
230 235 240
Phe Arg Asn His Ile Cys Met Thr Phe Glu Leu Leu Ser Met Asn
245 250 255
Leu Tyr Glu Leu Ile Lys Lys Asn Lys Phe Gln Gly Phe Ser Leu
260 265 270
Pro Leu Val Arg Lys Phe Ala His Ser Ile Leu Gln Cys Leu Asp
275 280 285
Ala Leu His Lys Asn Arg Ile Ile His Cys Asp Leu Lys Pro Glu
290 295 300
Asn Ile Leu Leu Lys Gln Gln Gly Arg Ser Gly Ile Lys Val Ile
305 310 315
Asp Phe Gly Ser Ser Cys Tyr Glu His Gln Arg Val Tyr Thr Tyr
320 325 330
Ile Gln Ser Arg Phe Tyr Arg Ala Pro Glu Val Ile Leu Gly Ala
335 340 345
Arg Tyr Gly Met Pro Ile Asp Met Trp Ser Leu Gly Cys Ile Leu
350 355 360
Ala Glu Leu Leu Thr Gly Tyr Pro Leu Leu Pro Gly Glu Asp Glu
365 370 375
Gly Asp Gln Leu Ala Cys Met Ile Glu Leu Leu Gly Met Pro Ser
380 385 390
Gln Lys Leu Leu Asp Ala Ser Lys Arg Ala Lys Asn Phe Val Ser
395 400 405
Ser Lys Gly Tyr Pro Arg Tyr Cys Thr Val Thr Thr Leu Ser Asp
410 415 420
Gly Ser Val Val Leu Asn Gly Gly Arg Ser Arg Arg Gly Lys Leu
425 430 435
Arg Gly Pro Pro Glu Ser Arg Glu Trp Gly Asn Ala Leu Lys Gly
440 445 450
Cys Asp Asp Pro Leu Phe Leu Asp Phe Leu Lys Gln Cys Leu Glu
455 460 465
Trp Asp Pro Ala Val Arg Met Thr Pro Gly Gln Ala Leu Arg His
470 475 480
Pro Trp Leu Arg Arg Arg Leu Pro Lys Pro Pro Thr Gly Glu Lys
485 490 495
Thr Ser Val Lys Arg Ile Thr Glu Ser Thr Gly Ala Ile Thr Ser
500 505 510
Ile Ser Lys Leu Pro Pro Pro Ser Ser Ser Ala Ser Lys Leu Arg
515 520 525
Thr Asn Leu Ala Gln Met Thr Asp Ala Asn Gly Asn Ile Gln Gln
530 535 540
Arg Thr Val Leu Pro Lys Leu Val Ser
545

<210> 14
<211> 416
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1490070

<400> 14
Met Met Pro Gln Leu Gln Phe Lys Asp Ala Phe Trp Cys Arg Asp
1 5 10 15
Phe Thr Ala His Thr Gly Tyr Glu Val Leu Leu Gln Arg Leu Leu
20 25 30
Asp Gly Arg Lys Met Cys Lys Asp Met Val Glu Leu Leu Trp Gln
35 40 45
Arg Ala Gln Ala Glu Glu Arg Tyr Gly Lys Glu Leu Val Gln Ile
50 55 60
Ala Arg Lys Ala Gly Gly Gln Thr Glu Ile Asn Ser Leu Arg Ala
65 70 75
Ser Phe Asp Ser Leu Lys Gln Gln Met Glu Asn Val Gly Ser Ser

```
                  80                  85                  90
His Ile Gln Leu Ala Leu Thr Leu Arg Glu Glu Leu Arg Ser Leu
                  95                 100                 105
Glu Glu Phe Arg Glu Arg Gln Lys Glu Gln Arg Lys Lys Tyr Glu
                 110                 115                 120
Ala Val Met Asp Arg Val Gln Lys Ser Lys Leu Ser Leu Tyr Lys
                 125                 130                 135
Lys Ala Met Glu Ser Lys Lys Thr Tyr Glu Gln Lys Cys Arg Asp
                 140                 145                 150
Ala Asp Asp Ala Glu Gln Ala Phe Glu Arg Ile Ser Ala Asn Gly
                 155                 160                 165
His Gln Lys Gln Val Glu Lys Ser Gln Asn Lys Ala Arg Gln Cys
                 170                 175                 180
Lys Asp Ser Ala Thr Glu Ala Glu Arg Val Tyr Arg Gln Ser Ile
                 185                 190                 195
Ala Gln Leu Glu Lys Val Arg Ala Glu Trp Glu Gln Glu His Arg
                 200                 205                 210
Thr Thr Cys Glu Ala Phe Gln Leu Gln Glu Phe Asp Arg Leu Thr
                 215                 220                 225
Ile Leu Arg Asn Ala Leu Trp Val His Ser Asn Gln Leu Ser Met
                 230                 235                 240
Gln Cys Val Lys Asp Asp Glu Leu Tyr Glu Glu Val Arg Leu Thr
                 245                 250                 255
Leu Glu Gly Cys Ser Ile Asp Ala Asp Ile Asp Ser Phe Ile Gln
                 260                 265                 270
Ala Lys Ser Thr Gly Thr Glu Pro Pro Ala Pro Val Pro Tyr Gln
                 275                 280                 285
Asn Tyr Tyr Asp Arg Glu Val Thr Pro Leu Thr Ser Ser Pro Gly
                 290                 295                 300
Ile Gln Pro Ser Cys Gly Met Ile Lys Arg Phe Ser Gly Leu Leu
                 305                 310                 315
His Gly Ser Pro Lys Thr Thr Ser Leu Ala Ala Ser Ala Ala Ser
                 320                 325                 330
Thr Glu Thr Leu Thr Pro Thr Pro Glu Arg Asn Glu Gly Val Tyr
                 335                 340                 345
Thr Ala Ile Ala Val Gln Glu Ile Gln Gly Asn Pro Ala Ser Pro
                 350                 355                 360
Ala Gln Glu Tyr Arg Ala Leu Tyr Asp Tyr Thr Ala Gln Asn Pro
                 365                 370                 375
Asp Glu Leu Asp Leu Ser Ala Gly Asp Ile Leu Glu Val Ile Leu
                 380                 385                 390
Glu Gly Glu Asp Gly Trp Trp Thr Val Glu Arg Asn Gly Gln Arg
                 395                 400                 405
Gly Phe Val Pro Gly Ser Tyr Leu Glu Lys Leu
                 410                 415
```

<210> 15
<211> 425
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1997814

<400> 15

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Met Glu Gln Gly Leu Glu Glu Glu Glu Glu Val Asp Pro Arg Ile
  1                 5                  10                  15
Gln Gly Glu Leu Glu Lys Leu Asn Gln Ser Thr Asp Asp Ile Asn
                 20                  25                  30
Arg Arg Glu Thr Glu Leu Glu Asp Ala Arg Gln Lys Phe Arg Ser
                 35                  40                  45
Val Leu Val Glu Ala Thr Val Lys Leu Asp Glu Leu Val Lys Lys
                 50                  55                  60
Ile Gly Lys Ala Val Glu Asp Ser Lys Pro Tyr Trp Glu Ala Arg
                 65                  70                  75
Arg Val Ala Arg Gln Ala Gln Leu Glu Ala Gln Lys Ala Thr Gln
```

```
                  80                  85                  90
Asp Phe Gln Arg Ala Thr Glu Val Leu Arg Ala Ala Lys Glu Thr
                  95                 100                 105
Ile Ser Leu Ala Glu Gln Arg Leu Leu Glu Asp Asp Lys Arg Gln
                 110                 115                 120
Phe Asp Ser Ala Trp Gln Glu Met Leu Asn His Ala Thr Gln Arg
                 125                 130                 135
Val Met Glu Ala Glu Gln Thr Lys Thr Arg Ser Glu Leu Val His
                 140                 145                 150
Lys Glu Thr Ala Ala Arg Tyr Asn Ala Ala Met Gly Arg Met Arg
                 155                 160                 165
Gln Leu Glu Lys Lys Leu Lys Arg Ala Ile Asn Lys Ser Lys Pro
                 170                 175                 180
Tyr Phe Glu Leu Lys Ala Lys Tyr Tyr Val Gln Leu Glu Gln Leu
                 185                 190                 195
Lys Lys Thr Val Asp Asp Leu Gln Ala Lys Leu Thr Leu Ala Lys
                 200                 205                 210
Gly Glu Tyr Lys Met Ala Leu Lys Asn Leu Glu Met Ile Ser Asp
                 215                 220                 225
Glu Ile His Glu Arg Arg Arg Ser Ser Ala Met Gly Pro Arg Gly
                 230                 235                 240
Cys Gly Val Gly Ala Glu Gly Ser Ser Thr Ser Val Glu Asp Leu
                 245                 250                 255
Pro Gly Ser Lys Pro Glu Pro Asp Ala Ile Ser Val Ala Ser Glu
                 260                 265                 270
Ala Phe Glu Asp Asp Ser Cys Ser Asn Phe Val Ser Glu Asp Asp
                 275                 280                 285
Ser Glu Thr Gln Ser Val Ser Ser Phe Ser Ser Gly Pro Thr Ser
                 290                 295                 300
Pro Ser Glu Met Pro Asp Gln Phe Pro Ala Val Val Arg Pro Gly
                 305                 310                 315
Ser Leu Asp Leu Pro Ser Pro Val Ser Leu Ser Glu Phe Gly Met
                 320                 325                 330
Met Phe Pro Val Leu Gly Pro Arg Ser Glu Cys Ser Gly Ala Ser
                 335                 340                 345
Ser Pro Glu Cys Glu Val Glu Arg Gly Asp Arg Ala Glu Gly Ala
                 350                 355                 360
Glu Asn Lys Thr Ser Asp Lys Ala Asn Asn Asn Arg Gly Leu Ser
                 365                 370                 375
Ser Ser Ser Gly Ser Gly Gly Ser Ser Lys Ser Gln Ser Ser Thr
                 380                 385                 390
Ser Pro Glu Gly Gln Ala Leu Glu Asn Arg Met Lys Gln Leu Ser
                 395                 400                 405
Leu Gln Cys Ser Lys Gly Arg Asp Gly Ile Ile Ala Asp Ile Lys
                 410                 415                 420
Met Val Gln Ile Gly
                 425
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<210> 16
<211> 1135
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2299715

<400> 16

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Met Ala Asn Asp Ser Pro Ala Lys Ser Leu Val Asp Ile Asp Leu
  1               5                  10                  15
Ser Ser Leu Arg Asp Pro Ala Gly Ile Phe Glu Leu Val Glu Val
                 20                  25                  30
Val Gly Asn Gly Thr Tyr Gly Gln Val Tyr Lys Gly Arg His Val
                 35                  40                  45
Lys Thr Gly Gln Leu Ala Ala Ile Lys Val Met Asp Val Thr Glu
                 50                  55                  60
Asp Glu Glu Glu Glu Ile Lys Leu Glu Ile Asn Met Leu Lys Lys
```

```
                    65                  70                  75
Tyr Ser His His Arg Asn Ile Ala Thr Tyr Tyr Gly Ala Phe Ile
                    80                  85                  90
Lys Lys Ser Pro Pro Gly His Asp Asp Gln Leu Trp Leu Val Met
                    95                 100                 105
Glu Phe Cys Gly Ala Gly Ser Ile Thr Asp Leu Val Lys Asn Thr
                   110                 115                 120
Lys Gly Asn Thr Leu Lys Glu Asp Trp Ile Ala Tyr Ile Ser Arg
                   125                 130                 135
Glu Ile Leu Arg Gly Leu Ala His Leu His Ile His His Val Ile
                   140                 145                 150
His Arg Asp Ile Lys Gly Gln Asn Val Leu Leu Thr Glu Asn Ala
                   155                 160                 165
Gly Val Lys Leu Val Asp Phe Gly Val Ser Ala Gln Leu Asp Arg
                   170                 175                 180
Thr Val Gly Arg Arg Asn Thr Phe Ile Gly Thr Pro Tyr Trp Met
                   185                 190                 195
Ala Pro Glu Val Ile Ala Cys Asp Glu Asn Pro Asp Ala Thr Tyr
                   200                 205                 210
Asp Tyr Arg Ser Asp Leu Trp Ser Cys Gly Ile Thr Ala Ile Glu
                   215                 220                 225
Met Ala Glu Gly Ala Pro Pro Leu Cys Asp Met His Pro Met Arg
                   230                 235                 240
Ala Leu Phe Leu Ile Pro Arg Asn Pro Pro Pro Arg Leu Lys Ser
                   245                 250                 255
Lys Lys Trp Ser Lys Lys Phe Phe Ser Phe Ile Glu Gly Cys Leu
                   260                 265                 270
Val Lys Asn Tyr Met Gln Arg Pro Ser Thr Glu Gln Leu Leu Lys
                   275                 280                 285
His Pro Phe Ile Arg Asp Gln Pro Asn Glu Arg Gln Val Arg Ile
                   290                 295                 300
Gln Leu Lys Asp His Ile Asp Arg Thr Arg Lys Lys Arg Gly Glu
                   305                 310                 315
Lys Asp Glu Thr Glu Tyr Glu Tyr Ser Gly Ser Glu Glu Glu Glu
                   320                 325                 330
Glu Glu Val Pro Glu Gln Glu Gly Glu Pro Ser Ser Ile Val Asn
                   335                 340                 345
Val Pro Gly Glu Ser Thr Leu Arg Arg Asp Phe Leu Arg Leu Gln
                   350                 355                 360
Gln Glu Asn Lys Glu Arg Ser Glu Ala Leu Arg Arg Gln Gln Leu
                   365                 370                 375
Leu Gln Glu Gln Gln Leu Arg Glu Gln Glu Glu Tyr Lys Arg Gln
                   380                 385                 390
Leu Leu Ala Glu Arg Gln Lys Arg Ile Glu Gln Gln Lys Glu Gln
                   395                 400                 405
Arg Arg Arg Leu Glu Glu Gln Gln Arg Arg Glu Arg Glu Ala Arg
                   410                 415                 420
Arg Gln Gln Glu Arg Glu Gln Arg Arg Arg Glu Gln Glu Glu Lys
                   425                 430                 435
Arg Arg Leu Glu Glu Leu Glu Arg Arg Arg Lys Glu Glu Glu Glu
                   440                 445                 450
Arg Arg Arg Ala Glu Glu Glu Lys Arg Arg Val Glu Arg Glu Gln
                   455                 460                 465
Glu Tyr Ile Arg Arg Gln Leu Glu Glu Glu Gln Arg His Leu Glu
                   470                 475                 480
Val Leu Gln Gln Gln Leu Leu Gln Glu Gln Ala Met Leu Leu His
                   485                 490                 495
Asp His Arg Arg Pro His Pro Gln His Ser Gln Gln Pro Pro Pro
                   500                 505                 510
Pro Gln Gln Glu Arg Ser Lys Pro Ser Phe His Ala Pro Glu Pro
                   515                 520                 525
Lys Ala His Tyr Glu Pro Ala Asp Arg Ala Arg Glu Val Pro Val
                   530                 535                 540
Arg Thr Thr Ser Arg Ser Pro Val Leu Ser Arg Arg Asp Ser Pro
                   545                 550                 555
Leu Gln Gly Ser Gly Gln Gln Asn Ser Gln Ala Gly Gln Arg Asn
                   560                 565                 570
```

Ser Thr Ser Ile Glu Pro Arg Leu Leu Trp Glu Arg Val Glu Lys
575 580 585
Leu Val Pro Arg Pro Gly Ser Gly Ser Ser Ser Gly Ser Ser Asn
590 595 600
Ser Gly Ser Gln Pro Gly Ser His Pro Gly Ser Gln Ser Gly Ser
605 610 615
Gly Glu Arg Phe Arg Val Arg Ser Ser Ser Lys Ser Glu Gly Ser
620 625 630
Pro Ser Gln Arg Leu Glu Asn Ala Val Lys Lys Pro Glu Asp Lys
635 640 645
Lys Glu Val Phe Arg Pro Leu Lys Pro Ala Asp Leu Thr Ala Leu
650 655 660
Ala Lys Glu Leu Arg Ala Val Glu Asp Val Arg Pro Pro His Lys
665 670 675
Val Thr Asp Tyr Ser Ser Ser Ser Glu Glu Ser Gly Thr Thr Asp
680 685 690
Glu Glu Asp Asp Asp Val Glu Gln Glu Gly Ala Asp Glu Ser Thr
695 700 705
Ser Gly Pro Glu Asp Thr Arg Ala Ala Ser Ser Leu Asn Leu Ser
710 715 720
Asn Gly Glu Thr Glu Ser Val Lys Thr Met Ile Val His Asp Asp
725 730 735
Val Glu Ser Glu Pro Ala Met Thr Pro Ser Lys Glu Gly Thr Leu
740 745 750
Ile Val Arg Gln Thr Gln Ser Ala Ser Ser Thr Leu Gln Lys His
755 760 765
Lys Ser Ser Ser Ser Phe Thr Pro Phe Ile Asp Pro Arg Leu Leu
770 775 780
Gln Ile Ser Pro Ser Ser Gly Thr Thr Val Thr Ser Val Val Gly
785 790 795
Phe Ser Cys Asp Gly Met Arg Pro Glu Ala Ile Arg Gln Asp Pro
800 805 810
Thr Arg Lys Gly Ser Val Val Asn Val Asn Pro Thr Asn Thr Arg
815 820 825
Pro Gln Ser Asp Thr Pro Glu Ile Arg Lys Tyr Lys Lys Arg Phe
830 835 840
Asn Ser Glu Ile Leu Cys Ala Ala Leu Trp Gly Val Asn Leu Leu
845 850 855
Val Gly Thr Glu Ser Gly Leu Met Leu Leu Asp Arg Ser Gly Gln
860 865 870
Gly Lys Val Tyr Pro Leu Ile Asn Arg Arg Arg Phe Gln Gln Met
875 880 885
Asp Val Leu Glu Gly Leu Asn Val Leu Val Thr Ile Ser Gly Lys
890 895 900
Lys Asp Lys Leu Arg Val Tyr Tyr Leu Ser Trp Leu Arg Asn Lys
905 910 915
Ile Leu His Asn Asp Pro Glu Val Glu Lys Lys Gln Gly Trp Thr
920 925 930
Thr Val Gly Asp Leu Glu Gly Cys Val His Tyr Lys Val Val Lys
935 940 945
Tyr Glu Arg Ile Lys Phe Leu Val Ile Ala Leu Lys Ser Ser Val
950 955 960
Glu Val Tyr Ala Trp Ala Pro Lys Pro Tyr His Lys Phe Met Ala
965 970 975
Phe Lys Ser Phe Gly Glu Leu Val His Gly Ser Cys Ala Gly Phe
980 985 990
His Ala Val Asp Val Asp Ser Gly Ser Val Tyr Asp Ile Tyr Leu
995 1000 1005
Pro Thr His Ile Gln Cys Ser Ile Lys Pro His Ala Ile Ile Ile
1010 1015 1020
Leu Pro Asn Thr Asp Gly Met Glu Leu Leu Val Cys Tyr Glu Asp
1025 1030 1035
Glu Gly Val Tyr Val Asn Thr Tyr Gly Arg Ile Thr Lys Asp Val
1040 1045 1050
Val Leu Gln Trp Gly Glu Met Pro Thr Ser Val Ala Tyr Ile Arg
1055 1060 1065
Ser Asn Gln Thr Met Gly Trp Gly Glu Lys Ala Ile Glu Ile Arg

```
                1070                1075                1080
Ser Val Glu Thr Gly His Leu Asp Gly Val Phe Met His Lys Arg
                1085                1090                1095
Ala Gln Arg Leu Lys Phe Leu Cys Glu Arg Asn Asp Lys Val Phe
                1100                1105                1110
Phe Ala Ser Val Arg Ser Gly Gly Ser Ser Gln Val Tyr Phe Met
                1115                1120                1125
Thr Leu Gly Arg Thr Ser Leu Leu Ser Trp
                1130                1135
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<210> 17
<211> 228
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 209854

<400> 17

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Met Pro Thr Asn Cys Ala Ala Ala Gly Cys Ala Thr Thr Tyr Asn
  1               5                  10                  15
Lys His Ile Asn Ile Ser Phe His Arg Phe Pro Leu Asp Pro Lys
                20                  25                  30
Arg Arg Lys Glu Trp Val Arg Leu Val Arg Arg Lys Asn Phe Val
                35                  40                  45
Pro Gly Lys His Thr Phe Leu Cys Ser Lys His Phe Glu Ala Ser
                50                  55                  60
Cys Phe Asp Leu Thr Gly Gln Thr Arg Arg Leu Lys Met Asp Ala
                65                  70                  75
Val Pro Thr Ile Phe Asp Phe Cys Thr His Ile Lys Ser Met Lys
                80                  85                  90
Leu Lys Ser Arg Asn Leu Leu Lys Lys Asn Asn Ser Cys Ser Pro
                95                 100                 105
Ala Gly Pro Ser Asn Leu Lys Ser Asn Ile Ser Ser Gln Gln Val
               110                 115                 120
Leu Leu Glu His Ser Tyr Ala Phe Arg Asn Pro Met Glu Ala Lys
               125                 130                 135
Lys Arg Ile Ile Lys Leu Glu Lys Glu Ile Ala Ser Leu Arg Arg
               140                 145                 150
Lys Met Lys Thr Cys Leu Gln Lys Glu Arg Arg Ala Thr Arg Arg
               155                 160                 165
Trp Ile Lys Ala Thr Cys Leu Val Lys Asn Leu Glu Ala Asn Ser
               170                 175                 180
Val Leu Pro Lys Gly Thr Ser Glu His Met Leu Pro Thr Ala Leu
               185                 190                 195
Ser Ser Leu Pro Leu Glu Asp Phe Lys Ile Leu Glu Gln Asp Gln
               200                 205                 210
Gln Asp Lys Thr Leu Leu Ser Leu Asn Leu Lys Gln Thr Lys Ser
               215                 220                 225
Thr Phe Ile
```

<210> 18
<211> 503
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1384286

<400> 18

```
Met Ala Thr Thr Val Thr Cys Thr Arg Phe Thr Asp Glu Tyr Gln
  1               5                  10                  15
Leu Tyr Glu Asp Ile Gly Lys Gly Ala Phe Ser Val Val Arg Arg
                20                  25                  30
```

```
Cys Val Lys Leu Cys Thr Gly His Glu Tyr Ala Ala Lys Ile Ile
                35                  40                  45
Asn Thr Lys Lys Leu Ser Ala Arg Asp His Gln Lys Leu Glu Arg
                50                  55                  60
Glu Ala Arg Ile Cys Arg Leu Leu Lys His Ser Asn Ile Val Arg
                65                  70                  75
Leu His Asp Ser Ile Ser Glu Glu Gly Phe His Tyr Leu Val Phe
                80                  85                  90
Asp Leu Val Thr Gly Gly Glu Leu Phe Glu Asp Ile Val Ala Arg
                95                 100                 105
Glu Tyr Tyr Ser Glu Ala Asp Ala Ser His Cys Ile Gln Gln Ile
               110                 115                 120
Leu Glu Ala Val Leu His Cys His Gln Met Gly Val Val His Arg
               125                 130                 135
Asp Leu Lys Pro Glu Asn Leu Leu Leu Ala Ser Lys Cys Lys Gly
               140                 145                 150
Ala Ala Val Lys Leu Ala Asp Phe Gly Leu Ala Ile Glu Val Gln
               155                 160                 165
Gly Asp Gln Gln Ala Trp Phe Gly Phe Ala Gly Ihr Pro Gly Tyr
               170                 175                 180
Leu Ser Pro Glu Val Leu Arg Lys Glu Ala Tyr Gly Lys Pro Val
               185                 190                 195
Asp Ile Trp Ala Cys Gly Val Ile Leu Tyr Ile Leu Leu Val Gly
               200                 205                 210
Tyr Pro Pro Phe Trp Asp Glu Asp Gln His Lys Leu Tyr Gln Gln
               215                 220                 225
Ile Lys Ala Gly Ala Tyr Asp Phe Pro Ser Pro Glu Trp Asp Thr
               230                 235                 240
Val Thr Pro Glu Ala Lys Asn Leu Ile Asn Gln Met Leu Thr Ile
               245                 250                 255
Asn Pro Ala Lys Arg Ile Thr Ala His Glu Ala Leu Lys His Pro
               260                 265                 270
Trp Val Cys Gln Arg Ser Thr Val Ala Ser Met Met His Arg Gln
               275                 280                 285
Glu Thr Val Glu Cys Leu Lys Lys Phe Asn Ala Arg Arg Lys Leu
               290                 295                 300
Lys Gly Ala Ile Leu Thr Thr Met Leu Ala Thr Arg Asn Phe Ser
               305                 310                 315
Ala Ala Lys Ser Leu Leu Asn Lys Lys Ala Asp Gly Val Lys Pro
               320                 325                 330
His Thr Asn Ser Thr Lys Asn Ser Ala Ala Ala Thr Ser Pro Lys
               335                 340                 345
Gly Thr Leu Pro Pro Ala Ala Leu Glu Ser Ser Asp Ser Ala Asn
               350                 355                 360
Thr Thr Ile Glu Asp Glu Asp Ala Lys Ala Arg Lys Gln Glu Ile
               365                 370                 375
Ile Lys Thr Thr Glu Gln Leu Ile Glu Ala Val Asn Asn Gly Asp
               380                 385                 390
Phe Glu Ala Tyr Ala Lys Ile Cys Asp Pro Gly Leu Thr Ser Phe
               395                 400                 405
Glu Pro Glu Ala Leu Gly Asn Leu Val Glu Gly Met Asp Phe His
               410                 415                 420
Arg Phe Tyr Phe Glu Asn Leu Leu Ala Lys Asn Ser Lys Pro Ile
               425                 430                 435
His Thr Thr Ile Leu Asn Pro His Val His Val Ile Gly Glu Asp
               440                 445                 450
Ala Ala Cys Ile Ala Tyr Ile Arg Leu Thr Gln Tyr Ile Asp Gly
               455                 460                 465
Gln Gly Arg Pro Arg Thr Ser Gln Ser Glu Glu Thr Arg Val Trp
               470                 475                 480
His Arg Arg Asp Gly Lys Trp Gln Asn Val His Phe His Cys Ser
               485                 490                 495
Gly Ala Pro Val Ala Pro Leu Gln
               500
```

<210> 19
<211> 433

<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1512656

<400> 19

```
Met Thr Gly Glu Ala Gln Ala Gly Arg Lys Arg Ser Arg Ala Arg
  1               5                  10                  15
Pro Glu Gly Thr Glu Pro Val Arg Arg Glu Arg Thr Gln Pro Gly
             20                  25                  30
Leu Gly Pro Gly Arg Ala Arg Ala Met Ala Ala Glu Ala Thr Ala
         35                  40                  45
Val Ala Gly Ser Gly Ala Val Gly Gly Cys Leu Ala Lys Asp Gly
     50                  55                  60
Leu Gln Gln Ser Lys Cys Pro Asp Thr Thr Pro Lys Arg Arg Arg
 65                  70                  75
Ala Ser Ser Leu Ser Arg Asp Ala Glu Arg Arg Ala Tyr Gln Trp
             80                  85                  90
Cys Arg Glu Tyr Leu Gly Gly Ala Trp Arg Arg Val Gln Pro Glu
         95                 100                 105
Glu Leu Arg Val Tyr Pro Val Ser Gly Gly Leu Ser Asn Leu Leu
    110                 115                 120
Phe Arg Cys Ser Leu Pro Asp His Leu Pro Ser Val Gly Glu Glu
    125                 130                 135
Pro Arg Glu Val Leu Leu Arg Leu Tyr Gly Ala Ile Leu Gln Gly
    140                 145                 150
Val Asp Ser Leu Val Leu Glu Ser Val Met Phe Ala Ile Leu Ala
    155                 160                 165
Glu Arg Ser Leu Gly Pro Gln Leu Tyr Gly Val Phe Pro Glu Gly
    170                 175                 180
Arg Leu Glu Gln Tyr Ile Pro Ser Arg Pro Leu Lys Thr Gln Glu
    185                 190                 195
Leu Arg Glu Pro Val Leu Ser Ala Ala Ile Ala Thr Lys Met Ala
    200                 205                 210
Gln Phe His Gly Met Glu Met Pro Phe Thr Lys Glu Pro His Trp
    215                 220                 225
Leu Phe Gly Thr Met Glu Arg Tyr Leu Lys Gln Ile Gln Asp Leu
    230                 235                 240
Pro Pro Thr Gly Leu Pro Glu Met Asn Leu Leu Glu Met Tyr Ser
    245                 250                 255
Leu Lys Asp Glu Met Gly Asn Leu Arg Lys Leu Leu Glu Ser Thr
    260                 265                 270
Pro Ser Pro Val Val Phe Cys His Asn Asp Ile Gln Glu Gly Asn
    275                 280                 285
Ile Leu Leu Leu Ser Glu Pro Glu Asn Ala Asp Ser Leu Met Leu
    290                 295                 300
Val Asp Phe Glu Tyr Ser Ser Tyr Asn Tyr Arg Gly Phe Asp Ile
    305                 310                 315
Gly Asn His Phe Cys Glu Trp Val Tyr Asp Tyr Thr His Glu Glu
    320                 325                 330
Trp Pro Phe Tyr Lys Ala Arg Pro Thr Asp Tyr Pro Thr Gln Glu
    335                 340                 345
Gln Gln Leu His Phe Ile Arg His Tyr Leu Ala Glu Ala Lys Lys
    350                 355                 360
Gly Glu Thr Leu Ser Gln Glu Glu Gln Arg Lys Leu Glu Glu Asp
    365                 370                 375
Leu Leu Val Glu Val Ser Arg Tyr Ala Leu Ala Ser His Phe Phe
    380                 385                 390
Trp Gly Leu Trp Ser Ile Leu Gln Ala Ser Met Ser Thr Ile Glu
    395                 400                 405
Phe Gly Tyr Leu Asp Tyr Ala Gln Ser Arg Phe Gln Phe Tyr Phe
    410                 415                 420
Gln Gln Lys Gly Gln Leu Thr Ser Val His Ser Ser Ser
    425                 430
```

<210> 20
<211> 527
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2098635

<400> 20
Met Ser Leu Cys Gly Ala Arg Ala Asn Ala Lys Met Met Ala Ala
1 5 10 15
Tyr Asn Gly Gly Thr Ser Ala Ala Ala Ala Gly His His His His
20 25 30
His His His His Leu Pro His Leu Pro Pro Pro His Leu Leu His
35 40 45
His His His Pro Gln His His Leu His Pro Gly Ser Ala Ala Ala
50 55 60
Val His Pro Val Gln Gln His Thr Ser Ser Ala Ala Ala Ala Ala
65 70 75
Ala Ala Ala Ala Ala Ala Ala Ala Met Leu Asn Pro Gly Gln Gln
80 85 90
Gln Pro Tyr Phe Pro Ser Pro Ala Pro Gly Gln Ala Pro Gly Pro
95 100 105
Ala Ala Ala Ala Pro Ala Gln Val Gln Ala Ala Ala Ala Ala Thr
110 115 120
Val Lys Ala His His His Gln His Ser His His Pro Gln Gln Gln
125 130 135
Leu Asp Ile Glu Pro Asp Arg Pro Ile Gly Tyr Gly Ala Phe Gly
140 145 150
Val Val Trp Ser Val Thr Asp Pro Arg Asp Gly Lys Arg Val Ala
155 160 165
Leu Lys Lys Met Pro Asn Val Phe Gln Asn Leu Val Ser Cys Lys
170 175 180
Arg Val Phe Arg Glu Leu Lys Met Leu Cys Phe Phe Lys His Asp
185 190 195
Asn Val Leu Ser Ala Leu Asp Ile Leu Gln Pro Pro His Ile Asp
200 205 210
Tyr Phe Glu Glu Ile Tyr Val Val Thr Glu Leu Met Gln Ser Asp
215 220 225
Leu His Lys Ile Ile Val Ser Pro Gln Pro Leu Ser Ser Asp His
230 235 240
Val Lys Val Phe Leu Tyr Gln Ile Leu Arg Gly Leu Lys Tyr Leu
245 250 255
His Ser Ala Gly Ile Leu His Arg Asp Ile Lys Pro Gly Asn Leu
260 265 270
Leu Val Asn Ser Asn Cys Val Leu Lys Ile Cys Asp Phe Gly Leu
275 280 285
Ala Arg Val Glu Glu Leu Asp Glu Ser Arg His Met Thr Gln Glu
290 295 300
Val Val Thr Gln Tyr Tyr Arg Ala Pro Glu Ile Leu Met Gly Ser
305 310 315
Arg His Tyr Ser Asn Ala Ile Asp Ile Trp Ser Val Gly Cys Ile
320 325 330
Phe Ala Glu Leu Leu Gly Arg Arg Ile Leu Phe Gln Ala Gln Ser
335 340 345
Pro Ile Gln Gln Leu Asp Leu Ile Thr Asp Leu Leu Gly Thr Pro
350 355 360
Ser Leu Glu Ala Met Arg Thr Ala Cys Glu Gly Ala Lys Ala His
365 370 375
Ile Leu Arg Gly Pro His Lys Gln Pro Ser Leu Pro Val Leu Tyr
380 385 390
Thr Leu Ser Ser Gln Ala Thr His Glu Ala Val His Leu Leu Cys
395 400 405
Arg Met Leu Val Phe Asp Pro Ser Lys Arg Ile Ser Ala Lys Asp
410 415 420
Ala Leu Ala His Pro Tyr Leu Asp Glu Gly Arg Leu Arg Tyr His

```
                425                 430                 435
Thr Cys Met Cys Lys Cys Cys Phe Ser Thr Ser Thr Gly Arg Val
                440                 445                 450
Tyr Thr Ser Asp Phe Glu Pro Val Thr Asn Pro Lys Phe Asp Asp
                455                 460                 465
Thr Phe Glu Lys Asn Leu Ser Ser Val Arg Gln Val Lys Glu Ile
                470                 475                 480
Ile His Gln Phe Ile Leu Glu Gln Gln Lys Gly Asn Arg Val Pro
                485                 490                 495
Leu Cys Ile Asn Pro Gln Ser Ala Ala Phe Lys Ser Phe Ile Ser
                500                 505                 510
Ser Thr Val Ala Gln Pro Ser Glu Met Pro Pro Ser Pro Leu Val
                515                 520                 525
Trp Glu
```

<210> 21
<211> 322
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2446646

<400> 21

```
Met Glu Gly Ile Ser Asn Phe Lys Thr Pro Ser Lys Leu Ser Glu
  1                 5                  10                  15
Lys Lys Lys Ser Val Leu Cys Ser Thr Pro Thr Ile Asn Ile Pro
                 20                  25                  30
Ala Ser Pro Phe Met Gln Lys Leu Gly Phe Gly Thr Gly Val Asn
                 35                  40                  45
Val Tyr Leu Met Lys Arg Ser Pro Arg Gly Leu Ser His Ser Pro
                 50                  55                  60
Trp Ala Val Lys Lys Ile Asn Pro Ile Cys Asn Asp His Tyr Arg
                 65                  70                  75
Ser Val Tyr Gln Lys Arg Leu Met Asp Glu Ala Lys Ile Leu Lys
                 80                  85                  90
Ser Leu His His Pro Asn Ile Val Gly Tyr Arg Ala Phe Thr Glu
                 95                 100                 105
Ala Asn Asp Gly Ser Leu Cys Leu Ala Met Glu Tyr Gly Gly Glu
                110                 115                 120
Lys Ser Leu Asn Asp Leu Ile Glu Glu Arg Tyr Lys Ala Ser Gln
                125                 130                 135
Asp Pro Phe Pro Ala Ala Ile Ile Leu Lys Val Ala Leu Asn Met
                140                 145                 150
Ala Arg Gly Leu Lys Tyr Leu His Gln Glu Lys Lys Leu Leu His
                155                 160                 165
Gly Asp Ile Lys Ser Ser Asn Val Val Ile Lys Gly Asp Phe Glu
                170                 175                 180
Thr Ile Lys Ile Cys Asp Val Gly Val Ser Leu Pro Leu Asp Glu
                185                 190                 195
Asn Met Thr Val Thr Asp Pro Glu Ala Cys Tyr Ile Gly Thr Glu
                200                 205                 210
Pro Trp Lys Pro Lys Glu Ala Val Glu Glu Asn Gly Val Ile Thr
                215                 220                 225
Asp Lys Ala Asp Ile Phe Ala Phe Gly Leu Thr Leu Trp Glu Met
                230                 235                 240
Met Thr Leu Ser Ile Pro His Ile Asn Leu Ser Asn Asp Asp Asp
                245                 250                 255
Asp Glu Asp Lys Thr Phe Asp Glu Ser Asp Phe Asp Asp Glu Ala
                260                 265                 270
Tyr Tyr Ala Ala Leu Gly Thr Arg Pro Pro Ile Asn Met Glu Glu
                275                 280                 285
Leu Asp Glu Ser Tyr Gln Lys Val Ile Glu Leu Phe Ser Val Cys
                290                 295                 300
Thr Asn Glu Asp Pro Lys Asp Arg Pro Ser Ala Ala His Ile Val
```

305 310 315
Glu Ala Leu Glu Thr Asp Val
320

<210> 22
<211> 802
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2764911

<400> 22
Met Glu Glu Glu Gly Gly Ser Ser Gly Gly Ala Ala Gly Thr Ser
1 5 10 15
Ala Asp Gly Gly Asp Gly Gly Glu Gln Leu Leu Thr Val Lys His
20 25 30
Glu Leu Arg Thr Ala Asn Leu Thr Gly His Ala Glu Lys Val Gly
35 40 45
Ile Glu Asn Phe Glu Leu Leu Lys Val Leu Gly Thr Gly Ala Tyr
50 55 60
Gly Lys Val Phe Leu Val Arg Lys Ile Ser Gly His Asp Thr Gly
65 70 75
Lys Leu Tyr Ala Met Lys Val Leu Lys Lys Ala Thr Ile Val Gln
80 85 90
Lys Ala Lys Thr Thr Glu His Thr Arg Thr Glu Arg Gln Val Leu
95 100 105
Glu His Ile Arg Gln Ser Pro Phe Leu Val Thr Leu His Tyr Ala
110 115 120
Phe Gln Thr Glu Thr Lys Leu His Leu Ile Leu Asp Tyr Ile Asn
125 130 135
Gly Gly Glu Leu Phe Thr His Leu Ser Gln Arg Glu Arg Phe Thr
140 145 150
Glu His Glu Val Gln Ile Tyr Val Gly Glu Ile Val Leu Ala Leu
155 160 165
Glu His Leu His Lys Leu Gly Ile Ile Tyr Arg Asp Ile Lys Leu
170 175 180
Glu Asn Ile Leu Leu Asp Ser Asn Gly His Val Val Leu Thr Asp
185 190 195
Phe Gly Leu Ser Lys Glu Phe Val Ala Asp Glu Thr Glu Arg Ala
200 205 210
Tyr Ser Phe Cys Gly Thr Ile Glu Tyr Met Ala Pro Asp Ile Val
215 220 225
Arg Gly Gly Asp Ser Gly His Asp Lys Ala Val Asp Trp Trp Ser
230 235 240
Leu Gly Val Leu Met Tyr Glu Leu Leu Thr Gly Ala Ser Pro Phe
245 250 255
Thr Val Asp Gly Glu Lys Asn Ser Gln Ala Glu Ile Ser Arg Arg
260 265 270
Ile Leu Lys Ser Glu Pro Pro Tyr Pro Gln Glu Met Ser Ala Leu
275 280 285
Ala Lys Asp Leu Ile Gln Arg Leu Leu Met Lys Asp Pro Lys Lys
290 295 300
Arg Leu Gly Cys Gly Pro Arg Asp Ala Asp Glu Ile Lys Glu His
305 310 315
Leu Phe Phe Gln Lys Ile Asn Trp Asp Asp Leu Ala Ala Lys Lys
320 325 330
Val Pro Ala Pro Phe Lys Pro Val Ile Arg Asp Glu Leu Asp Val
335 340 345
Ser Asn Phe Ala Glu Glu Phe Thr Glu Met Asp Pro Thr Tyr Ser
350 355 360
Pro Ala Ala Leu Pro Gln Ser Ser Glu Lys Leu Phe Gln Gly Tyr
365 370 375
Ser Phe Val Ala Pro Ser Ile Leu Phe Lys Arg Asn Ala Ala Val
380 385 390
Ile Asp Pro Leu Gln Phe His Met Gly Val Glu Arg Pro Gly Val

```
                395                 400                 405
Thr Asn Val Ala Arg Ser Ala Met Met Lys Asp Ser Pro Phe Tyr
                410                 415                 420
Gln His Tyr Asp Leu Asp Leu Lys Asp Lys Pro Leu Gly Glu Gly
                425                 430                 435
Ser Phe Ser Ile Cys Arg Lys Cys Val His Lys Lys Ser Asn Gln
                440                 445                 450
Ala Phe Ala Val Lys Ile Ile Ser Lys Arg Met Glu Ala Asn Thr
                455                 460                 465
Gln Lys Glu Ile Thr Ala Leu Glu Leu Cys Glu Gly His Pro Asn
                470                 475                 480
Ile Val Lys Leu His Glu Val Phe His Asp Gln Leu His Thr Phe
                485                 490                 495
Leu Val Met Glu Leu Leu Asn Gly Gly Glu Leu Phe Glu Arg Ile
                500                 505                 510
Lys Lys Lys Lys His Phe Ser Glu Thr Glu Ala Ser Tyr Ile Met
                515                 520                 525
Arg Lys Leu Val Ser Ala Val Ser His Met His Asp Val Gly Val
                530                 535                 540
Val His Arg Asp Leu Lys Pro Glu Asn Leu Leu Phe Thr Asp Glu
                545                 550                 555
Asn Asp Asn Leu Glu Ile Lys Ile Ile Asp Phe Gly Phe Ala Arg
                560                 565                 570
Leu Lys Pro Pro Asp Asn Gln Pro Leu Lys Thr Pro Cys Phe Thr
                575                 580                 585
Leu His Tyr Ala Ala Pro Glu Leu Leu Asn Gln Asn Gly Tyr Asp
                590                 595                 600
Glu Ser Cys Asp Leu Trp Ser Leu Gly Val Ile Leu Tyr Thr Met
                605                 610                 615
Leu Ser Gly Gln Val Pro Phe Gln Ser His Asp Arg Ser Leu Thr
                620                 625                 630
Cys Thr Ser Ala Val Glu Ile Met Lys Lys Ile Lys Lys Gly Asp
                635                 640                 645
Phe Ser Phe Glu Gly Glu Ala Trp Lys Asn Val Ser Gln Glu Ala
                650                 655                 660
Lys Asp Leu Ile Gln Gly Leu Leu Thr Val Asp Pro Asn Lys Arg
                665                 670                 675
Leu Lys Met Ser Gly Leu Arg Tyr Asn Glu Trp Leu Gln Asp Gly
                680                 685                 690
Ser Gln Leu Ser Ser Asn Pro Leu Met Thr Pro Asp Ile Leu Gly
                695                 700                 705
Ser Ser Gly Ala Ala Val His Thr Cys Val Lys Ala Thr Phe His
                710                 715                 720
Ala Phe Asn Lys Tyr Lys Arg Glu Gly Phe Cys Leu Gln Asn Val
                725                 730                 735
Asp Lys Ala Pro Leu Ala Lys Arg Arg Lys Met Lys Lys Thr Ser
                740                 745                 750
Thr Ser Thr Glu Thr Arg Ser Ser Ser Ser Glu Ser Ser His Ser
                755                 760                 765
Ser Ser Ser His Ser His Gly Lys Thr Thr Pro Thr Lys Thr Leu
                770                 775                 780
Gln Pro Ser Asn Pro Ala Asp Ser Asn Asn Pro Glu Thr Leu Phe
                785                 790                 795
Gln Phe Ser Asp Ser Val Ala
                800

<210> 23
<211> 641
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3013946

<400> 23
Met Ala Thr Thr Val Thr Cys Thr Arg Phe Thr Asp Glu Tyr Gln
```

```
  1               5                  10                  15
Leu Tyr Glu Asp Ile Gly Lys Gly Ala Phe Ser Val Val Arg Arg
             20                  25                  30
Cys Val Lys Leu Cys Thr Gly His Glu Tyr Ala Ala Lys Ile Ile
             35                  40                  45
Asn Thr Lys Lys Leu Ser Ala Arg Asp His Gln Lys Leu Glu Arg
             50                  55                  60
Glu Ala Arg Ile Cys Arg Leu Leu Lys His Ser Asn Ile Val Arg
             65                  70                  75
Leu His Asp Ser Ile Ser Glu Glu Gly Phe His Tyr Leu Val Phe
             80                  85                  90
Asp Leu Val Thr Gly Gly Glu Leu Phe Glu Asp Ile Val Ala Arg
             95                 100                 105
Glu Tyr Tyr Ser Glu Ala Asp Ala Ser His Cys Ile Gln Gln Ile
            110                 115                 120
Leu Glu Ala Val Leu His Cys His Gln Met Gly Val Val His Arg
            125                 130                 135
Asp Leu Lys Pro Glu Asn Leu Leu Leu Ala Ser Lys Cys Lys Gly
            140                 145                 150
Ala Ala Val Lys Leu Ala Asp Phe Gly Leu Ala Ile Glu Val Gln
            155                 160                 165
Gly Asp Gln Gln Ala Trp Phe Gly Phe Ala Gly Thr Pro Gly Tyr
            170                 175                 180
Leu Ser Pro Glu Val Leu Arg Lys Glu Ala Tyr Gly Lys Pro Val
            185                 190                 195
Asp Ile Trp Ala Cys Gly Val Ile Leu Tyr Ile Leu Leu Val Gly
            200                 205                 210
Tyr Pro Pro Phe Trp Asp Glu Asp Gln His Lys Leu Tyr Gln Gln
            215                 220                 225
Ile Lys Ala Gly Ala Tyr Asp Phe Pro Ser Pro Glu Trp Asp Thr
            230                 235                 240
Val Thr Pro Glu Ala Lys Asn Leu Ile Asn Gln Met Leu Thr Ile
            245                 250                 255
Asn Pro Ala Lys Arg Ile Thr Ala His Glu Ala Leu Lys His Pro
            260                 265                 270
Trp Val Cys Gln Arg Ser Thr Val Ala Ser Met Met His Arg Gln
            275                 280                 285
Glu Thr Val Glu Cys Leu Lys Lys Phe Asn Ala Arg Arg Lys Leu
            290                 295                 300
Lys Gly Ala Ile Leu Thr Thr Met Leu Ala Thr Arg Asn Phe Ser
            305                 310                 315
Ala Lys Ser Leu Leu Asn Lys Lys Ala Asp Gly Val Lys Pro Gln
            320                 325                 330
Thr Asn Ser Thr Lys Asn Ser Ala Ala Ala Thr Ser Pro Lys Gly
            335                 340                 345
Thr Leu Pro Pro Ala Ala Leu Glu Pro Gln Thr Thr Val Ile His
            350                 355                 360
Asn Pro Val Asp Gly Ile Lys Glu Ser Ser Asp Ser Ala Asn Thr
            365                 370                 375
Thr Ile Glu Asp Glu Asp Ala Lys Ala Pro Arg Val Pro Asp Ile
            380                 385                 390
Leu Ser Ser Val Arg Arg Gly Ser Gly Ala Pro Glu Ala Glu Gly
            395                 400                 405
Pro Leu Pro Cys Pro Ser Pro Ala Pro Phe Gly Pro Leu Pro Ala
            410                 415                 420
Pro Ser Pro Arg Ile Ser Asp Ile Leu Asn Ser Val Arg Arg Gly
            425                 430                 435
Ser Gly Thr Pro Glu Ala Glu Gly Pro Leu Ser Ala Gly Pro Pro
            440                 445                 450
Pro Cys Leu Ser Pro Ala Leu Leu Gly Pro Leu Ser Ser Pro Ser
            455                 460                 465
Pro Arg Ile Ser Asp Ile Leu Asn Ser Val Arg Arg Gly Ser Gly
            470                 475                 480
Thr Pro Glu Ala Lys Gly Pro Ser Pro Val Gly Pro Pro Pro Cys
            485                 490                 495
Pro Ser Pro Thr Ile Pro Gly Pro Leu Pro Thr Pro Ser Arg Lys
            500                 505                 510
```

```
Gln Glu Ile Ile Lys Thr Thr Glu Gln Leu Ile Glu Ala Val Asn
                515                 520                 525
Asn Gly Asp Phe Glu Ala Tyr Ala Lys Ile Cys Asp Pro Gly Leu
            530                 535                 540
Thr Ser Phe Glu Pro Glu Ala Leu Gly Asn Leu Val Glu Gly Met
        545                 550                 555
Asp Phe His Arg Phe Tyr Phe Glu Asn Leu Leu Ala Lys Asn Ser
    560                 565                 570
Lys Pro Ile His Thr Thr Ile Leu Asn Pro His Val His Val Ile
575                 580                 585
Gly Glu Asp Ala Ala Cys Ile Ala Tyr Ile Arg Leu Thr Gln Tyr
590                 595                 600
Ile Asp Gly Gln Gly Arg Pro Arg Thr Ser Gln Ser Glu Glu Thr
605                 610                 615
Arg Val Trp His Arg Arg Asp Gly Lys Trp Gln Asn Val His Phe
620                 625                 630
His Cys Ser Gly Ala Pro Val Ala Pro Leu Gln
635                 640
```

<210> 24
<211> 588
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 067967

<400> 24

```
Met Gly Gly Thr Ala Arg Gly Pro Gly Arg Lys Asp Ala Gly Pro
  1                 5                  10                  15
Pro Gly Ala Gly Leu Pro Pro Gln Gln Arg Arg Leu Gly Asp Gly
             20                  25                  30
Val Tyr Asp Thr Phe Met Met Ile Asp Glu Thr Lys Cys Pro Pro
         35                  40                  45
Cys Ser Asn Val Leu Cys Asn Pro Ser Glu Pro Pro Ser Pro Arg
     50                  55                  60
Arg Leu Asn Met Thr Thr Glu Gln Phe Thr Gly Asp His Thr Gln
 65                  70                  75
His Phe Leu Asp Gly Gly Glu Met Lys Val Glu Gln Leu Phe Gln
             80                  85                  90
Glu Phe Gly Asn Arg Lys Ser Asn Thr Ile Gln Ser Asp Gly Ile
         95                 100                 105
Ser Asp Ser Glu Lys Cys Ser Pro Thr Val Ser Gln Gly Lys Ser
    110                 115                 120
Ser Asp Cys Leu Asn Thr Val Lys Ser Asn Ser Ser Ser Lys Ala
125                 130                 135
Pro Lys Val Val Pro Leu Thr Pro Glu Gln Ala Leu Lys Gln Tyr
140                 145                 150
Lys His His Leu Thr Ala Tyr Glu Lys Leu Glu Ile Ile Asn Tyr
155                 160                 165
Pro Glu Ile Tyr Phe Val Gly Pro Asn Ala Lys Lys Arg His Gly
170                 175                 180
Val Ile Gly Gly Pro Asn Asn Gly Gly Tyr Asp Asp Ala Asp Gly
185                 190                 195
Ala Tyr Ile His Val Pro Arg Asp His Leu Ala Tyr Arg Tyr Glu
200                 205                 210
Val Leu Lys Ile Ile Gly Lys Gly Ser Phe Gly Gln Val Ala Arg
215                 220                 225
Val Tyr Asp His Lys Leu Arg Gln Tyr Val Ala Leu Lys Met Val
230                 235                 240
Arg Asn Glu Lys Arg Phe His Arg Gln Ala Ala Glu Glu Ile Arg
245                 250                 255
Ile Leu Glu His Leu Lys Lys Gln Asp Lys Thr Gly Ser Met Asn
260                 265                 270
Val Ile His Met Leu Glu Ser Phe Thr Phe Arg Asn His Val Cys
275                 280                 285
```

```
Met Ala Phe Glu Leu Leu Ser Ile Asp Leu Tyr Glu Leu Ile Lys
                290                 295                 300
Lys Asn Lys Phe Gln Gly Phe Ser Val Gln Leu Val Arg Lys Phe
                305                 310                 315
Ala Gln Ser Ile Leu Gln Ser Leu Asp Ala Leu His Lys Asn Lys
                320                 325                 330
Ile Ile His Cys Asp Leu Lys Pro Glu Asn Ile Leu Leu Lys His
                335                 340                 345
His Gly Arg Ser Ser Thr Lys Val Ile Asp Phe Gly Ser Ser Cys
                350                 355                 360
Phe Glu Tyr Gln Lys Leu Tyr Thr Tyr Ile Gln Ser Arg Phe Tyr
                365                 370                 375
Arg Ala Pro Glu Ile Ile Leu Gly Ser Arg Tyr Ser Thr Pro Ile
                380                 385                 390
Asp Ile Trp Ser Phe Gly Cys Ile Leu Ala Glu Leu Leu Thr Gly
                395                 400                 405
Gln Pro Leu Phe Pro Gly Glu Asp Glu Gly Asp Gln Leu Ala Cys
                410                 415                 420
Met Met Glu Leu Leu Gly Met Pro Pro Pro Lys Leu Leu Glu Gln
                425                 430                 435
Ser Lys Arg Ala Lys Tyr Phe Ile Asn Ser Lys Gly Ile Pro Arg
                440                 445                 450
Tyr Cys Ser Val Thr Thr Gln Ala Asp Gly Arg Val Val Leu Val
                455                 460                 465
Gly Gly Arg Ser Arg Arg Gly Lys Lys Arg Gly Pro Pro Gly Ser
                470                 475                 480
Lys Asp Trp Gly Thr Ala Leu Lys Gly Cys Asp Asp Tyr Leu Phe
                485                 490                 495
Ile Glu Phe Leu Lys Arg Cys Leu His Trp Asp Pro Ser Ala Arg
                500                 505                 510
Leu Thr Pro Ala Gln Ala Leu Arg His Pro Trp Ile Ser Lys Ser
                515                 520                 525
Val Pro Arg Pro Leu Thr Thr Ile Asp Lys Val Ser Gly Lys Arg
                530                 535                 540
Val Val Asn Pro Ala Ser Ala Phe Gln Gly Leu Gly Ser Lys Leu
                545                 550                 555
Pro Pro Val Val Gly Ile Ala Asn Lys Leu Lys Ala Asn Leu Met
                560                 565                 570
Ser Glu Thr Asn Gly Ser Ile Pro Leu Cys Ser Val Leu Pro Lys
                575                 580                 585
Leu Ile Ser
```

<210> 25
<211> 389
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 346275

<400> 25

```
Met Ser Asp Val Cys Ser Ser Gln Arg Ala Glu His Glu His Leu
  1                 5                  10                  15
Pro Gly Leu Val Pro Pro Pro Ser Gly Met Gly Val Arg Lys Gly
                 20                  25                  30
Ser Ser Pro Leu Lys Ser His Pro Cys Arg Glu Lys Ser Val Ser
                 35                  40                  45
Asn Arg Arg Ser Gly Lys Thr Ile Val Arg Ser Ala Val Glu Glu
                 50                  55                  60
Val Arg Thr Ala Gly Leu Phe Arg Ser Gly Phe Ser Glu Glu Lys
                 65                  70                  75
Ala Thr Gly Lys Leu Phe Ala Val Lys Cys Ile Pro Lys Lys Ala
                 80                  85                  90
Leu Lys Gly Lys Glu Ser Ser Ile Glu Asn Glu Ile Ala Val Leu
                 95                 100                 105
```

```
Arg Lys Ile Lys His Glu Asn Ile Val Ala Leu Glu Asp Ile Tyr
                110                 115                 120
Glu Ser Pro Asn His Leu Tyr Leu Val Met Gln Leu Val Ser Gly
                125                 130                 135
Gly Glu Leu Phe Asp Arg Ile Val Glu Lys Gly Phe Tyr Thr Glu
                140                 145                 150
Lys Asp Ala Ser Thr Leu Ile Arg Gln Val Leu Asp Ala Val Tyr
                155                 160                 165
Tyr Leu His Arg Met Gly Ile Val His Arg Asp Leu Lys Pro Glu
                170                 175                 180
Asn Leu Leu Tyr Tyr Ser Gln Asp Glu Glu Ser Lys Ile Met Ile
                185                 190                 195
Ser Asp Phe Gly Leu Ser Lys Met Glu Gly Lys Gly Asp Val Met
                200                 205                 210
Ser Thr Ala Cys Gly Thr Pro Gly Tyr Val Ala Pro Glu Val Leu
                215                 220                 225
Ala Gln Lys Pro Tyr Ser Lys Ala Val Asp Cys Trp Ser Ile Gly
                230                 235                 240
Val Ile Ala Tyr Ile Leu Leu Cys Gly Tyr Pro Pro Phe Tyr Asp
                245                 250                 255
Glu Asn Asp Ser Lys Leu Phe Glu Gln Ile Leu Lys Ala Glu Tyr
                260                 265                 270
Glu Phe Asp Ser Pro Tyr Trp Asp Asp Ile Ser Asp Ser Ala Lys
                275                 280                 285
Asp Phe Ile Arg Asn Leu Met Glu Lys Asp Pro Asn Lys Arg Tyr
                290                 295                 300
Thr Cys Glu Gln Ala Ala Arg His Pro Trp Ile Ala Gly Asp Thr
                305                 310                 315
Ala Leu Asn Lys Asn Ile His Glu Ser Val Ser Ala Gln Ile Arg
                320                 325                 330
Lys Asn Phe Ala Lys Ser Lys Trp Arg Gln Ala Phe Asn Ala Thr
                335                 340                 345
Ala Val Val Arg His Met Arg Lys Leu His Leu Gly Ser Ser Leu
                350                 355                 360
Asp Ser Ser Asn Ala Ser Val Ser Ser Ser Leu Ser Leu Ala Ser
                365                 370                 375
Gln Lys Asp Cys Ala Tyr Val Ala Lys Pro Glu Ser Leu Ser
                380                 385
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<210> 26
<211> 343
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 283746

<400> 26

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Met Ile Gly Glu Glu Ala Met Ile Asn Tyr Glu Asn Phe Leu Lys
  1               5                  10                  15
Val Gly Glu Lys Ala Gly Ala Lys Cys Lys Gln Phe Phe Thr Ala
                20                  25                  30
Lys Val Phe Ala Lys Leu Leu His Thr Asp Ser Tyr Gly Arg Ile
                35                  40                  45
Ser Ile Met Gln Phe Phe Asn Tyr Val Met Arg Lys Val Trp Leu
                50                  55                  60
His Gln Thr Arg Ile Gly Leu Ser Leu Tyr Asp Val Ala Gly Gln
                65                  70                  75
Gly Tyr Leu Arg Glu Ser Asp Leu Glu Asn Tyr Ile Leu Glu Leu
                80                  85                  90
Ile Pro Thr Leu Pro Gln Leu Asp Gly Leu Glu Lys Ser Phe Tyr
                95                 100                 105
Ser Phe Tyr Val Cys Thr Ala Val Arg Lys Phe Phe Phe Phe Leu
                110                 115                 120
Asp Pro Leu Arg Thr Gly Lys Ile Lys Ile Gln Asp Ile Leu Ala
                125                 130                 135
```

```
Cys Ser Phe Leu Asp Asp Leu Leu Glu Leu Arg Asp Glu Glu Leu
                140                 145                 150
Ser Lys Glu Ser Gln Glu Thr Asn Trp Phe Ser Ala Pro Ser Ala
                155                 160                 165
Leu Arg Val Tyr Gly Gln Tyr Leu Asn Leu Asp Lys Asp His Asn
                170                 175                 180
Gly Met Leu Ser Lys Glu Glu Leu Ser Arg Tyr Gly Thr Ala Thr
                185                 190                 195
Met Thr Asn Val Phe Leu Asp Arg Val Phe Gln Glu Cys Leu Thr
                200                 205                 210
Tyr Asp Gly Glu Met Asp Tyr Lys Thr Tyr Leu Asp Phe Val Leu
                215                 220                 225
Ala Leu Glu Asn Arg Lys Glu Pro Ala Ala Leu Gln Tyr Ile Phe
                230                 235                 240
Lys Leu Leu Asp Ile Glu Asn Lys Gly Tyr Leu Asn Val Phe Ser
                245                 250                 255
Leu Asn Tyr Phe Phe Arg Ala Ile Gln Glu Leu Met Lys Ile His
                260                 265                 270
Gly Gln Asp Pro Val Ser Phe Gln Asp Val Lys Asp Glu Ile Phe
                275                 280                 285
Asp Met Val Lys Pro Lys Asp Pro Leu Lys Ile Ser Leu Gln Asp
                290                 295                 300
Leu Ile Asn Ser Asn Gln Gly Asp Thr Val Thr Thr Ile Leu Ile
                305                 310                 315
Asp Leu Asn Gly Phe Trp Thr Tyr Glu Asn Arg Glu Ala Leu Val
                320                 325                 330
Ala Asn Asp Ser Glu Asn Ser Ala Asp Leu Asp Asp Thr
                335                 340
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<210> 27
<211> 134
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2696537

<400> 27

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Met Gly Asn Gly Met Asn Lys Ile Leu Pro Gly Leu Tyr Ile Gly
  1               5                  10                  15
Asn Phe Lys Asp Ala Arg Asp Ala Glu Gln Leu Ser Lys Asn Lys
                20                  25                  30
Val Thr His Ile Leu Ser Val His Asp Ser Ala Arg Pro Met Leu
                35                  40                  45
Glu Gly Val Lys Tyr Leu Cys Ile Pro Ala Ala Asp Ser Pro Ser
                50                  55                  60
Gln Asn Leu Thr Arg His Phe Lys Glu Ser Ile Lys Phe Ile His
                65                  70                  75
Glu Cys Arg Leu Arg Gly Glu Ser Cys Leu Val His Cys Leu Ala
                80                  85                  90
Gly Val Ser Arg Ser Val Thr Leu Val Ile Ala Tyr Ile Met Thr
                95                 100                 105
Val Thr Asp Phe Gly Trp Glu Asp Ala Leu His Thr Val Arg Ala
                110                 115                 120
Gly Arg Ser Cys Ala Asn Pro Asn Val Gly Phe Gln Arg Gln Leu
                125                 130                 135
Gln Glu Phe Glu Lys His Glu Val His Gln Tyr Arg Gln Trp Leu
                140                 145                 150
Lys Glu Glu Tyr Gly Glu Ser Pro Leu Gln Asp Ala Glu Glu Ala
                155                 160                 165
Lys Asn Ile Leu Ala Ala Pro Gly Ile Leu Lys Phe Trp Ala Phe
                170                 175                 180
Leu Arg Arg Leu
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<210> 28

<211> 118
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 619292

<400> 28
Met Gly Leu Ile Asp Gly Met His Thr His Leu Gly Ala Pro Gly
1 5 10 15
Leu Tyr Ile Gln Thr Leu Leu Pro Gly Ser Pro Ala Ala Ala Asp
20 25 30
Gly Arg Leu Ser Leu Gly Asp Arg Ile Leu Glu Val Asn Gly Ser
35 40 45
Ser Leu Leu Gly Leu Gly Tyr Leu Arg Ala Val Asp Leu Ile Arg
50 55 60
His Gly Gly Lys Lys Met Arg Phe Leu Val Ala Lys Ser Asp Val
65 70 75
Gly Lys Gln Pro Arg Arg Ser Ile Ser Ala Arg Pro Leu Ser Arg
80 85 90
Gly Ala Ala Arg Thr Pro Pro Gln Ala Arg His Pro Val Pro Pro
95 100 105
Gly Asp Thr Gly Leu Pro Pro Ala Phe Val Pro Val Leu
110 115

<210> 29
<211> 356
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2054049

<400> 29
Met Val Gly Val Ser Gly Lys Arg Ser Lys Glu Asp Glu Lys Tyr
1 5 10 15
Leu Gln Ala Ile Met Asp Ser Asn Ala Gln Ser His Lys Ile Phe
20 25 30
Ile Phe Asp Ala Arg Pro Ser Val Asn Ala Val Ala Asn Lys Ala
35 40 45
Lys Gly Gly Gly Tyr Glu Ser Glu Asp Ala Tyr Gln Asn Ala Glu
50 55 60
Leu Val Phe Leu Asp Ile His Asn Ile His Val Met Arg Glu Ser
65 70 75
Leu Arg Lys Leu Lys Glu Ile Val Tyr Pro Asn Ile Glu Glu Thr
80 85 90
His Trp Leu Ser Asn Leu Glu Ser Thr His Trp Leu Glu His Ile
95 100 105
Lys Leu Ile Leu Ala Gly Ala Leu Arg Ile Ala Asp Lys Val Glu
110 115 120
Ser Gly Lys Thr Ser Val Val Val His Cys Ser Asp Gly Trp Asp
125 130 135
Arg Thr Ala Gln Leu Thr Ser Leu Ala Met Leu Met Leu Asp Gly
140 145 150
Tyr Tyr Arg Thr Ile Arg Gly Phe Glu Val Leu Val Glu Lys Glu
155 160 165
Trp Leu Ser Phe Gly His Arg Phe Gln Leu Arg Val Gly His Gly
170 175 180
Asp Lys Asn His Ala Asp Ala Asp Arg Ser Pro Val Phe Leu Gln
185 190 195
Phe Ile Asp Cys Val Trp Gln Met Thr Arg Gln Phe Pro Thr Ala
200 205 210
Phe Glu Phe Asn Glu Tyr Phe Leu Ile Thr Ile Leu Asp His Leu
215 220 225
Tyr Ser Cys Leu Phe Gly Thr Phe Leu Cys Asn Ser Glu Gln Gln

```
                230                 235                 240
Arg Gly Lys Glu Asn Leu Pro Lys Arg Thr Val Ser Leu Trp Ser
                245                 250                 255
Tyr Ile Asn Ser Gln Leu Glu Asp Phe Thr Asn Pro Leu Tyr Gly
                260                 265                 270
Ser Tyr Ser Asn His Val Leu Tyr Pro Val Ala Ser Met Arg His
                275                 280                 285
Leu Glu Leu Trp Val Gly Tyr Tyr Ile Arg Trp Asn Pro Arg Met
                290                 295                 300
Lys Pro Gln Glu Pro Ile His Asn Arg Tyr Lys Glu Leu Leu Ala
                305                 310                 315
Lys Arg Ala Glu Leu Gln Lys Lys Val Glu Glu Leu Gln Arg Glu
                320                 325                 330
Ile Ser Asn Arg Ser Thr Ser Ser Ser Glu Arg Ala Ser Ser Pro
                335                 340                 345
Ala Gln Cys Val Thr Pro Val Gln Thr Val Val
                350                 355
```

<210> 30
<211> 453
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2843910

<400> 30

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Met Ala Gly Ala Gly Gly Phe Gly Cys Pro Ala Gly Gly Asn Asp
  1               5                  10                  15
Phe Gln Trp Cys Phe Ser Gln Val Lys Gly Ala Ile Asp Glu Asp
             20                  25                  30
Val Ala Glu Ala Asp Ile Ile Ser Thr Val Glu Phe Asn Tyr Ser
             35                  40                  45
Gly Asp Leu Leu Ala Thr Gly Asp Lys Gly Gly Arg Val Val Ile
             50                  55                  60
Phe Gln Arg Glu Gln Glu Asn Lys Ser Arg Pro His Ser Arg Gly
             65                  70                  75
Glu Tyr Asn Val Tyr Ser Thr Phe Gln Ser His Glu Pro Glu Phe
             80                  85                  90
Asp Tyr Leu Lys Ser Leu Glu Ile Glu Glu Lys Ile Asn Lys Ile
             95                 100                 105
Arg Trp Leu Pro Gln Gln Asn Ala Ala His Phe Leu Leu Ser Thr
            110                 115                 120
Asn Asp Lys Thr Ile Lys Leu Trp Lys Ile Ser Glu Arg Asp Lys
            125                 130                 135
Arg Ala Glu Gly Tyr Asn Leu Lys Asp Glu Asp Gly Arg Leu Arg
            140                 145                 150
Asp Pro Phe Arg Ile Thr Ala Leu Arg Val Pro Ile Leu Lys Pro
            155                 160                 165
Met Asp Leu Met Val Glu Ala Ser Pro Arg Arg Ile Phe Ala Asn
            170                 175                 180
Ala His Thr Tyr His Ile Asn Ser Ile Ser Val Asn Ser Asp His
            185                 190                 195
Glu Thr Tyr Leu Ser Ala Asp Asp Leu Arg Ile Asn Leu Trp His
            200                 205                 210
Leu Glu Ile Thr Asp Arg Ser Phe Asn Ile Val Asp Ile Lys Pro
            215                 220                 225
Ala Asn Met Glu Glu Leu Thr Glu Val Ile Thr Ala Ala Glu Phe
            230                 235                 240
His Pro His Gln Cys Asn Val Phe Val Tyr Ser Ser Ser Lys Gly
            245                 250                 255
Thr Ile Arg Leu Cys Asp Met Arg Ser Ser Ala Leu Cys Asp Arg
            260                 265                 270
His Ser Lys Phe Phe Glu Glu Pro Glu Asp Pro Ser Ser Arg Ser
            275                 280                 285
Phe Phe Ser Glu Ile Ile Ser Ser Ile Ser Asp Val Lys Phe Ser
```

```
                290                 295                 300
His Ser Gly Arg Tyr Met Met Thr Arg Asp Tyr Leu Ser Val Lys
                305                 310                 315
Val Trp Asp Leu Asn Met Glu Ser Arg Pro Val Glu Thr His Gln
                320                 325                 330
Val His Glu Tyr Leu Arg Ser Lys Leu Cys Ser Leu Tyr Glu Asn
                335                 340                 345
Asp Cys Ile Phe Asp Lys Phe Glu Cys Cys Trp Asn Gly Ser Asp
                350                 355                 360
Ser Ala Ile Met Thr Gly Ser Tyr Asn Asn Phe Phe Arg Met Phe
                365                 370                 375
Asp Arg Asp Thr Arg Arg Asp Val Thr Leu Glu Ala Ser Arg Glu
                380                 385                 390
Ser Ser Lys Pro Arg Ala Ser Leu Lys Pro Arg Lys Val Cys Thr
                395                 400                 405
Gly Gly Lys Arg Arg Lys Asp Glu Ile Ser Val Asp Ser Leu Asp
                410                 415                 420
Phe Asn Lys Lys Ile Leu His Thr Ala Trp His Pro Val Asp Asn
                425                 430                 435
Val Ile Ala Val Ala Ala Thr Asn Asn Leu Tyr Ile Phe Gln Asp
                440                 445                 450
Lys Ile Asn
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<210> 31
<211> 1221
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 132240

<400> 31
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gaagcatcaa agaatcctct tttgaagaat caaatattga agatccactt attgtaacac 120
cagattgcca agaaaagacc tcaccaaaag gtgtcgagaa ccctgctgta caagagagta 180
accaaaaaat gttaggtcct cctttggagg tgctgaaaac gttagcctct aaaagaaatg 240
ctgttgcttt tcgaagtttt aacagtcata ttaatgcatc caataactca gaaccatcca 300
gaatgaacat gacttcttta gatgcaatgg atatttcgtg tgcctacagt ggttcatatc 360
ccatggctat aacccctact caaaaaagaa gatcctgtat gccacatcag accccaaatc 420
agatcaagtc gggaactcca taccgaactc cgaagagtgt gagaagaggg gtggcccccg 480
ttgatgatgg gcgaattcta ggaaccccag actaccttgc acctgagctg ttactaggca 540
gggcccatgg tcctgcggta gactggtggg cacttggagt ttgcttgttt gaatttctaa 600
caggaattcc ccctttcaat gatgaaacac cacaacaagt attccagaat attctgaaaa 660
gagatatccc ttggccagaa ggtgaagaaa agttatctga taatgctcaa agtgcagtag 720
aaatactttt aaccattgat gatacaaaga gagctggaat gaaagagcta aaacgtcatc 780
ctctcttcag tgatgtggac tgggaaaatc tgcagcatca gactatgcct ttcatccccc 840
agccagatga tgaaacagat acctcctatt ttgaagccag gaatactgct cagcacctga 900
ctgtatctgg atttagtctg tagcacaaaa attttccttt tagtctagcc ttgtgttata 960
gaatgaactt gcataattat atactcctta atactagatt gatctaaggg ggaaagatca 1020
ttatttaacc tagttcaatg tgcttttaat gtacgttaca gctttcacag agttaaaagg 1080
ctgaaaggaa tatagtcagt aatttatctt aacctcaaaa ctgtatataa atcttcaaag 1140
ctttttttcat ttatttattt tgtttattgc actttatgaa aactgaagca tcaataaaat 1200
tagaggacac taaaaaaaaa a                                          1221
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<210> 32
<211> 542
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2180116

<400> 32
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tggccaggct gggtccagca gcgcgatggc agctcagcgg ctgggcaagc gcgtgctgag 60
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caagctgcag tctccatcgc gggcccgcgg gccaggggc agtcccgggg ggatgcagaa 120
gcggcacgcg cgcgtcaccg tcaagtatga ccggcgggag ctgcagcggc ggctggacgt 180
ggagaagtgg atcgacgggc gcctggagga gctgtaccgc ggcatggagg cagacatgcc 240
cgatgagatc aacattgatg aattgttgga gttagagagt gaagaggaga gaagccggaa 300
aatccaggga ctcctgaagt catgtgggaa acctgtcgag gacttcatcc aggagctgct 360
ggcaaagctt caaggcctcc acaggcagcc cggcctccgc cagccaagcc cctcccacga 420
cggcagcctc agccccctcc aggaccgggc ccggactgct caccctgac cctcttgcac 480
tctccctgcc ccccggacgc cgcccagctt gcttgtgtat aagttgtatt taatggattc 540
tt 542

<210> 33
<211> 2778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2197671

<220>
<221> unsure
<222> (1) ... (2778)
<223> a, t, c, g, or other

<400> 33
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tcactccccg gtgcagtcgg gcctgcccgg catgcagaac ctaaaggcag acccagaaga 120
gcttttaca aaactagaga aaattgggaa gggctccttt ggagaggtgt tcaaaggcat 180
tgacaatcgg actcagaaag tggttgccat naagatcatt gatctggaag aagctgaaga 240
tgagatagag gacattcaac aagaaatcac agtgctgagt cagtgtgaca gtccatatgt 300
aaccaaatat tatggatcct atctgaagga tacaaaatta tggataataa tggaatatct 360
tggtggaggc tccgcactag atctattaga acctggccga ttagatgaaa cccagatcgc 420
tactatatta agagaaatac tgaaaggact cgattatctc cattcggaga agaaaatcca 480
cagagacatt aaagcggcca acgtcctgct gtctgagcat ggcgaggtga agctggcgga 540
ctttggcgtg gctggccagc tgacagacac ccagatcaaa aggaacacct tcgtgggcac 600
cccattctgg atggcacccg aggtcatcaa acagtcggcc tatgactcga aggcagacat 660
ctggtccctg ggcataacag ctattgaact tgcaagaggg gaaccacctc attccgagct 720
gcaccccatg aaagttttat tcctcattcc aaagaacaac ccaccgacgt tggaaggaaa 780
ctacagtaaa cccctcaagg agtttgtgga ggcctgtttg aataaggagc cgagctttag 840
acccactgct aaggagttat tgaagcacaa gtttatacta cgcaatgcaa agaaaacttc 900
ctacttgacc gagctcatcg acaggtacaa gagatggaag gccgagcaga gccatgacga 960
ctcgagctcc gaggattccg acgcggaaac agatggccaa gcctcggggg gcagtgattc 1020
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tcagccatcg gacttggaca gaaataagat gaaagacatc ccaaagaggc ctttctctca 1140
gtgtttatct acaattattt ctcctctgtt tgcagagttg aaggagaaga gccaggcgtg 1200
cggagggaac ttggggtcca ttgaagagct gcgaggggcc atctacctag cggaggaggc 1260
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tctaagtggt ggaggaactt catcccactg aaattccttt ggcatttggg gttttgtttt 1380
tctttttttc cttcttcatc ctcctccttt tttaaaagtc aacgagagcc ttcgctgact 1440
ccaccgaaga ggtgcgccac tgggagccac cccagtgcca ggcgcccgtc cagggacaca 1500
cacagtcttc actgtgctgc agccagatga agtctctcag atgggtgggg agggtcagct 1560
ccttccagcg atcattttat tttatttttat tacttttgtt tttaatttta accatagtgc 1620
acatattcca ggaaagtgtc tttaaaaaca aaaacaaacc ctgaaatgta tatttgggat 1680
tatgataagg caactaaaga catgaaacct caggtatcct gctttaagtt gataactccc 1740
tctgggagct ggagaatcgc tctggtggat gggtgtacag atttgtatat aatgtcattt 1800
ttacggaaac cctttcggcg tgcataagga atcactgtgt acaaactggc caagtgcttc 1860
tgtagataac gtcagtggag taaatattcg acaggccata acttgagtct attgccttgc 1920
ctttattaca tgtacatttt gaattctgtg accagtgatt tgggttttat tttgtatttg 1980
cagggtttgt cattaataat taatgccccc ctcttacaga acactcctat ttgtacctca 2040
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cctttttcat cgatggtact atttcttagt gttttaaatt ggaacatatc ttgcctcatg 2160
aagctttaaa ttataatttt cagtttctcc ccatgaagcg ctctcgtctg acatttgttt 2220
ggaatcgtgc cactgctggt ctgcgccaga tgtaccgtcc tttccaatac gattttctgt 2280
tgcaccttgt agtggattct gcatatcatc tttcccacct aaaaatgtct gaatgcttac 2340
acaaataaat tttataacac gcttatttg catactcctt gaaatgtgac tcttcagagg 2400
acagggtacc tgctgtgtat gtgtggccgt gcgtgtgtac tcgtggctgt gtgtgtgtga 2460
tgagacactt tggaagactc cagggagaag ttcccagggc tggagctgcc gagtgcccag 2520

gtcagcgccc tgggctgctt gcgcaatngc tcaccgngat gatgcattgg aggttgctga 2580
cctgtgcgat tgctgtagcg gttgccaggg accttaaggg gttattttgc ttccctggga 2640
ggggncctat gtttctaggc aagcagccat gtgtctaatt ttctgggttt gctgtgggga 2700
cctgattggg ggaggggaa ancttgggg ttcttggagt gggagggttc gtgccancaa 2760
tnttncctgg taaaaaag 2778

<210> 34
<211> 1424
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2594943

<400> 34
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gtgccggcgt gggcatcccc cggggcagtg gaacgcgggc gctcctccag cttccgagtc 180
cagccagcct gggcgcgggg cgccgccccc gagacacccg aggagtccgt tcctccctgg 240
ttacgtggac tgtggagctg gtctcttgtg gctcagcgcc gtgcggaggt tgaagcgtac 300
ctgcggaggt cgcaccaggg cgtgaggagg aggaggaagg gcatgagccg agcttgagga 360
atccgtgctc caaactctac actcaagggt ggcccttggg tagggtgaag atcccctgtc 420
tttatcctag ttccacacct tggtgtgggt tactgggtgc aggatgaact gtcgctcgga 480
ggtgctggag gtgtcggtgg aggggcggca ggtggaggag gccatgctgg ctgtgctgca 540
cacggtgctt ctgcaccgca gcacaggcaa gttccactac aagaaggagg gcacctactc 600
cattggcacc gtgggcaccc aggatgttga ctgtgacttc atcgacttca cttatgtgcg 660
tgtctcttct gaggaactgg atcgtgccct gcgcaaggtt gttggggagt tcaaggatgc 720
actgcgcaac tctggtggcg atgggctggg gcagatgtcc ttggagttct accagaagaa 780
gaagttctgc tggccattct cagacgagtg catcccatgg gaagtgtgga cggtcaaggt 840
gcatgtggta gccctggcca cggagcagga gcggcagatc tgccgggaga aggtgcgtga 900
gaaactctgc gagaagatca tcaacatcgt ggaggtgatg aatcggcatg agtacttgcc 960
caagatgccc acacagtcgg aggtggataa cgtgtttgac acaggcttgc gggacgtgca 1020
gccctacctg cacaagatct ccttccagat cactgatgcc ctgggcacct cagtcaccac 1080
caccatgcgc aggctcatca aagacaccct tgccctctga gcgtcgctgg atctctggga 1140
gctccttgat ggctcccaga ccttggcttt tgggaattgc acttttgggc ctttgggctc 1200
tggaacctgc tctgggtcat tggtgagact tggaaggggc agcccccgct ggcttcttgg 1260
ctttgtggtt gccagcctca ggtcatcctt ttaatctttg ctgatggttc agtcctgcct 1320
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accactggga tggggaataa agttgagaac atgaaaaaaa aaaa 1424

<210> 35
<211> 1839
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1513871

<400> 35
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aggggaagct gccccgtgcc cgggagggag cgggcgcacc gcggccccca ggacacgcgc 120
tgacccggct gcccagtccc tcatgatcat gaacaagatg aagaacttta agcgccgttt 180
ctccctgtca gtgccccgca ctgagaccat tgaagaatcc ttggctgaat tcacggagca 240
attcaaccag ctccacaacc ggcggaatga gaacttgcag ctcggtcctc ttggcagaga 300
ccccccgcag gagtgcagca ccttctcccc aacagacagc ggggaggagc cggggcagct 360
ctcccctggc gtgcagttcc agcggcggca gaaccagcgc cgcttctcca tggaggacgt 420
cagcaagagg ctctctctgc ccatggatat ccgcctgccc caggaattcc tacagaagct 480
acagatggag agcccagatc tgcccaagcc gctcagccgc atgtcccgcc gggcctccct 540
gtcagacatt ggctttggga aactggaaac atacgtgaaa ctggacaaac tgggagaggg 600
cacctatgcc acagtcttca aagggcgcag caaactgacg gagaaccttg tggccctgaa 660
agagatccgg ctggagcacg aggagggagc gccctgcact gccatccgag aggtgtctct 720
gctgaagaac ctgaagcacg ccaatattgt gaccctgcat gacctcatcc acacagatcg 780
gtccctcacc ctggtgtttg agtacctgga cagtgacctg aagcagtatc tggaccactg 840
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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<211> 2140
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

<220>
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<211> 1290
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<211> 632

PF-0565 USN

<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 619292

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<212> DNA
<213> Homo sapiens

<220>
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<211> 1737
<212> DNA
<213> Homo sapiens

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